TC-WA7ESA/WE505/WE605S/ WE705S/WR550Z

SERVICE MANUAL

US Model
TC-WA7ESA/WE605S/WR550Z

Canadian Model
TC-WA7ESA/WE605S

AEP Model
TC-WE505/WE705S

UK Model
TC-WE505

E Model
Australian Model
Chinese Model
TC-WE605S

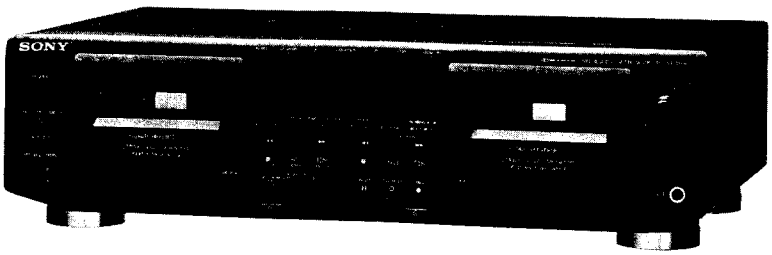


Photo : TC-WE705S

* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

"DOLBY", the double-D symbol DD and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Similar Mechanism		TC-WA7ES/WR565/WE665S
Tape Transport Machanism Type	DECK-A	TC-WE605S/WR550Z : TCM-190RA12CL TC-WE505 : TCM-190RA14CL TC-WA7ESA : TCM-190RA17CL TC-WE705S : TCM-190RA18C
	DECK- B	TC-WA7ESA/WE705S : TCM-190RB11C TC-WE505/WE605S/WR550Z: TCM-190RB12CL

SPECIFICATIONS

System

Recording system
4-track 2-channel stereo

Fast-winding time (approx.)
90 sec. (with Sony C-60 cassette)

High-speed fast-winding time (approx.) (TC-WA7ESA and TC-WE705S only)
45 sec. (with Sony C-60 cassette)

Bias
AC bias

Signal-to-noise ratio (at peak level and weighted with Dolby NR off)
Type I tape, Sony Type I (NORMAL): 55 dB
Type II tape, Sony Type II (HIGH): 57 dB
Type IV tape, Sony Type IV (METAL): 58 dB

S/N ratio improvement (approximate values)
With Dolby B NR on: 5 dB at 1 kHz, 10 dB at 5 kHz
With Dolby C NR on: 15 dB at 500 Hz, 20 dB at 1 kHz
With Dolby S NR on (unavailable on the TC-WE505): 10 dB at 100 Hz, 24 dB at 1 kHz

Harmonic distortion
0.4% (with Type I tape, Sony Type I (NORMAL): 160 nWb/m 315 Hz, 3rd H.D.)
1.8% (with Type IV tape, Sony Type IV (METAL): 250 nWb/m 315 Hz, 3rd H.D.)

Frequency response (Dolby NR off)

Tape type	
Type I tape, Sony Type I (NORMAL)	30 - 16,000 Hz (±3 dB, IEC), 20 - 17,000 Hz (±6 dB)
Type II tape, Sony Type II (HIGH)	30 - 17,000 Hz (±3 dB, IEC), 20 - 18,000 Hz (±6 dB)
Type IV tape, Sony Type IV (METAL)	30 - 19,000 Hz (±3 dB, IEC), 20 - 20,000 Hz (±6 dB), 30 - 13,000 Hz (±3 dB, -4 dB recording)

– Continued on page 2 –

MICROFILM

STEREO CASSETTE DECK

SONY®

Wow and flutter

TC-WA7ESA/WE705S/WE605S/ WR550Z	TC-WE505
±0.13% W. Peak (IEC)	±0.14% W. Peak (IEC)
0.07% W. RMS (NAB)	0.08% W. RMS (NAB)
±0.18% W. Peak (DIN)	±0.19% W. Peak (DIN)

Variable pitch range (approx.) (TC-WE705S and TC-WE505 only)
-30 to +30%

Inputs

Line inputs (phono jacks)
Sensitivity : 0.16 V
Input impedance : 47 kilohms

Outputs

Line outputs (phono jacks)
Rated output level : 0.5 V at a load impedance of 47 kilohms
Load impedance : Over 10 kilohms

Headphones (stereo phone jack)
Output level : 0.25 mW at a load impedance of 32 ohms

General

Power requirements

Where purchased	Power requirements
US, Canadian, Panama model	120V AC, 60Hz
AEP, UK, German, Malaysia, Singapore, Chinese model	220 – 230V AC, 50/60Hz
Australian model	240V AC, 50/60Hz
E model	120/220/240V AC, 50/60Hz

Power consumption
26W

Dimensions (approx) (w/h/d)
UK, and Australian model :
430 × 120 × 303 mm (w/h/d)
(17 × 4 3/4 × 12 inches)
EXCEPT UK, Australian model :
430 × 120 × 290 mm (w/h/d)
(17 × 4 3/4 × 11 1/2 inches)
including projecting parts and controls

Mass (approx.)
4.2 kg (9 lbs 5 oz)

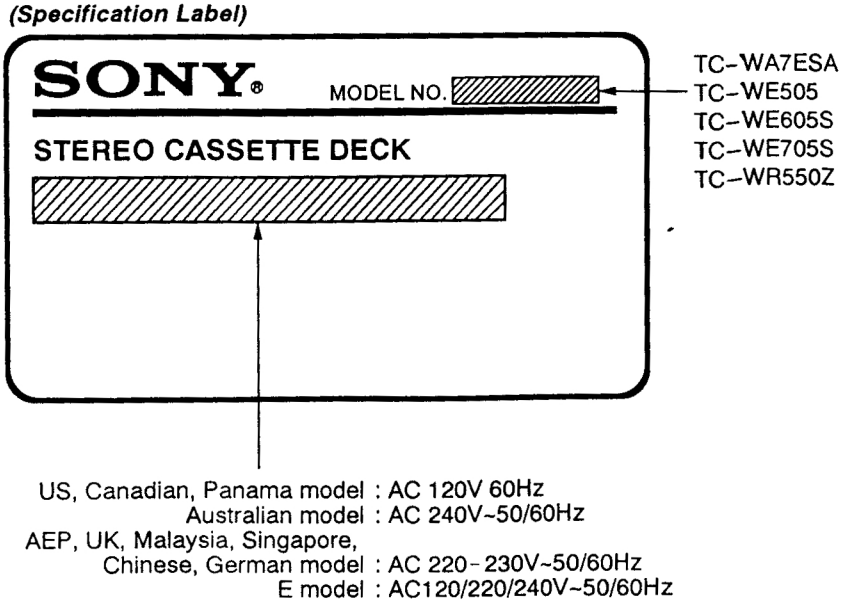
Supplied accessories
Audio connecting cords (2 phono plugs - 2 phono plugs) (2)
Remote commander (RM-J910) (1) :
(WA7ESA : Canadian model)

Design and specifications are subject to change without notice.

TABLE OF CONTENTS

Section	*Title*	*Page*
	Specifications	1
	Safety Check-out	3
1.	**GENERAL**	
1-1.	Identifying the Parts	4
2.	**DISASSEMBLY**	
2-1.	Front Panel Removal	5
2-2.	Mechanism Deck	5
2-3.	Capstan Motor, Reel Motor	6
2-4.	Head, Pinch Roller	6
3.	**ADJUSTMENTS**	
3-1.	Mechanical Adjustments	7
3-2.	Electrical Adjustments	7
4.	**EXPLANATION OF IC TERMINALS**	11
5.	**DIAGRAMS**	
5-1.	Block Diagram	13
5-2.	Printed Wiring Boards (Main Section)	18
5-3.	Schematic Diagram (Main Section)	23
5-4.	Schematic Diagram (Panel Section)	28
5-5.	Schematic Diagram (Audio Section)	30
5-6.	Printed Wiring Boards (Audio Section)	33
5-7.	Printed Wiring Boards (Dolby Section)	36
5-8.	Schematic Diagram (Dolby Section)	37
6.	**EXPLODED VIEWS**	
6-1.	Chassis Section	39
6-2.	Front Panel Section	41
6-3.	Mechanism Section 1	42
6-4.	Mechanism Section 2	43
7.	**ELECTRICAL PARTS LIST**	44

MODEL IDENTIFICATION
(Specification Label)



US, Canadian, Panama model : AC 120V 60Hz
Australian model : AC 240V~50/60Hz
AEP, UK, Malaysia, Singapore,
Chinese, German model : AC 220-230V~50/60Hz
E model : AC120/220/240V~50/60Hz

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

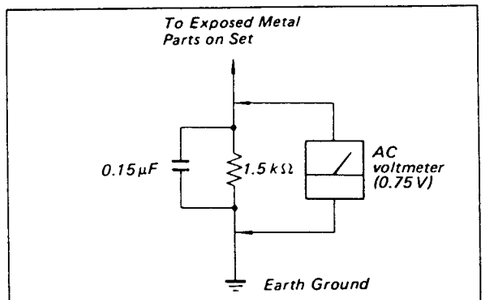


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

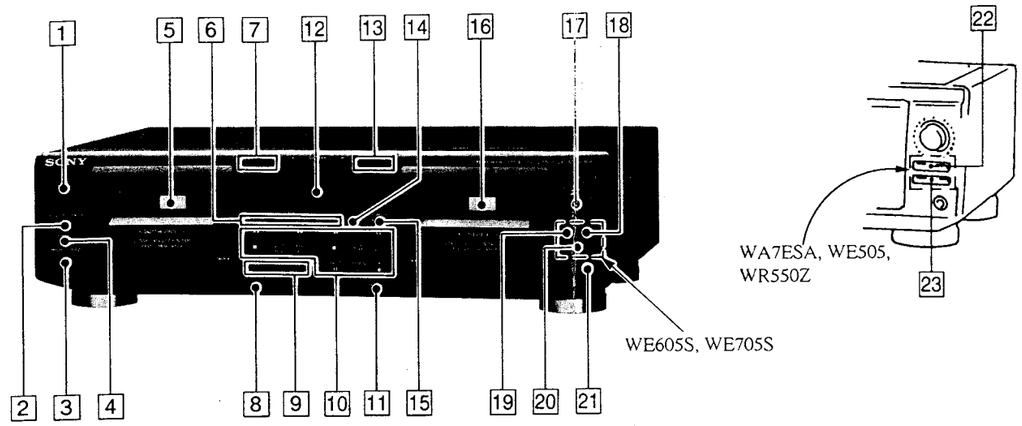
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
GENERAL

1-1. IDENTIFYING THE PARTS



FRONT PANEL

1 POWER switch
2 DIRECTION MODE switch
3 PITCH control
4 PITCH control ON/OFF switch
5 Deck-A
6 RMS** operation buttons
RMS/START buttons
SET buttons
CHECK buttons
DISPLAY buttons
7 COUNTER buttons (deck-A)
RESET button
MEMORY button
8 ⏏ (eject) button (deck-A)
9 DOLBY NR switches
OFF/ON/FILTER ON switch
B/C/S switch
10 Tape operation buttons
◀◀ (leftward fastwinding)/AMS***/RMS** − button
▶▶ (rightward fastwinding)/AMS***/RMS** +button
■ (stop)/(RMS**) CLEAR button
◁ (reverse play)/(RMS**) BACK button
▷ (forward play)/(RMS**) FRONT button
II PAUSE button
○ REC MUTE (record muting) button
● REC (record muting) button
11 ⏏ (eject) button (deck-B)
12 Display panel
13 COUNTER buttons (deck-B)
RESET button
MEMORY button
14 AUTO CAL button
15 SYNCHRO DUBBING buttons
HIGH button
NORMAL button
16 Deck-B
17 AUTO REC (recording) LEVEL control
18 ARL button
19 FADER button
20 SYNCHRO button
} (WE605S, WE705S)
21 PHONES jack (stereo phone jack)
22 ARL button
23 FADER button
} (WA7ESA, WE505, WR550Z)

** Random Music Sensor
*** Automatic Music Sensor

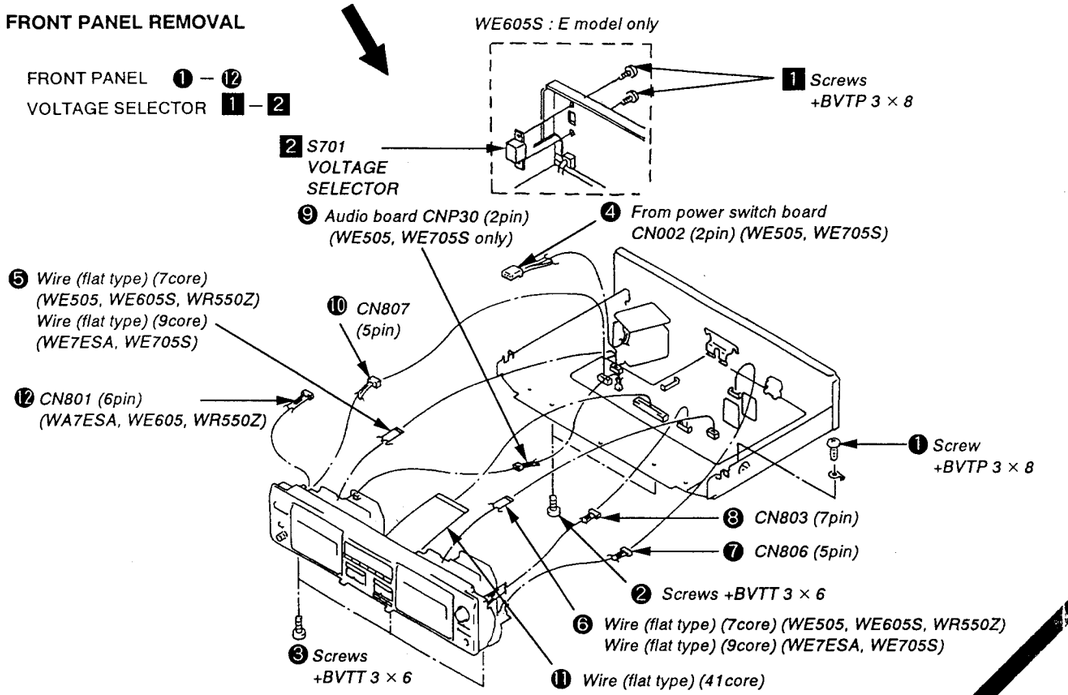
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

CASE
Unscrew the four case attachment screws M3 × 8 and remove the case.

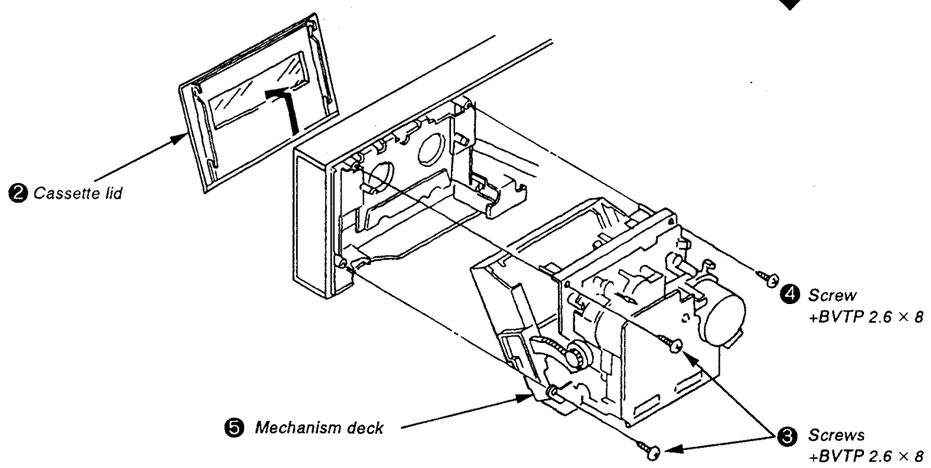
2-1. FRONT PANEL REMOVAL

FRONT PANEL ❶ – ⓬
VOLTAGE SELECTOR 1 – 2

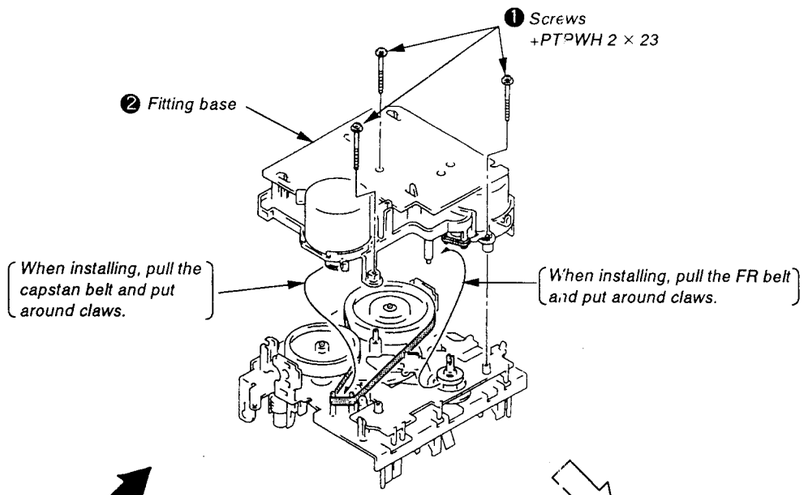

WE605S : E model only
1 Screws +BVTP 3 × 8
2 S701 VOLTAGE SELECTOR
❾ Audio board CNP30 (2pin) (WE505, WE705S only)
❹ From power switch board CN002 (2pin) (WE505, WE705S)
❺ Wire (flat type) (7core) (WE505, WE605S, WR550Z) Wire (flat type) (9core) (WE7ESA, WE705S)
❿ CN807 (5pin)
⓬ CN801 (6pin) (WA7ESA, WE605, WR550Z)
❶ Screw +BVTP 3 × 8
❽ CN803 (7pin)
❼ CN806 (5pin)
❷ Screws +BVTT 3 × 6
❻ Wire (flat type) (7core) (WE505, WE605S, WR550Z) Wire (flat type) (9core) (WE7ESA, WE705S)
❸ Screws +BVTT 3 × 6
⓫ Wire (flat type) (41core)

2-2. MECHANISM DECK

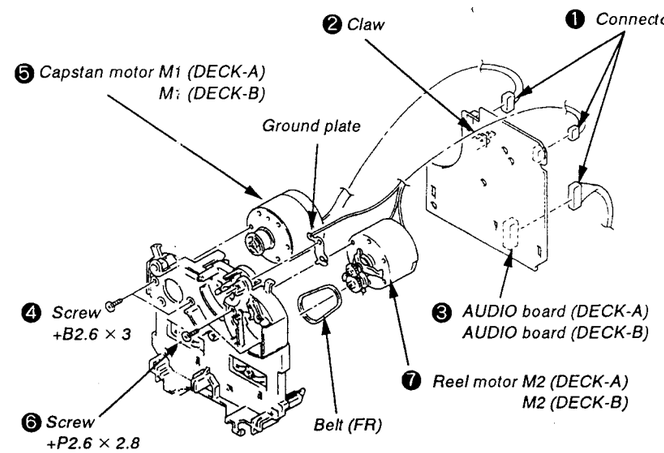
❶ Press the EJECT button.



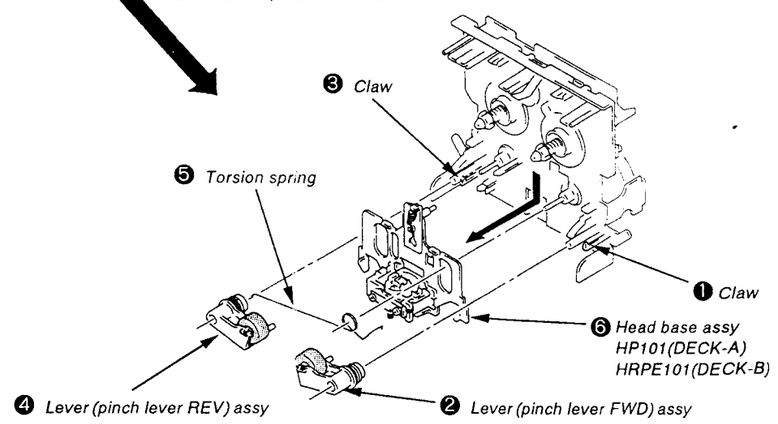
2-3. CAPSTAN MOTOR, REEL MOTOR


❶ Screws +PTPWH 2 × 23
❷ Fitting base
When installing, pull the capstan belt and put around claws.
When installing, pull the FR belt and put around claws.

Remove the cassette holder


❷ Claw
❶ Connectors
❺ Capstan motor M1 (DECK-A) M1 (DECK-B)
Ground plate
❹ Screw +B2.6 × 3
❸ AUDIO board (DECK-A) AUDIO board (DECK-B)
❼ Reel motor M2 (DECK-A) M2 (DECK-B)
❻ Screw +P2.6 × 2.8
Belt (FR)

2-4. HEAD, PINCH ROLLER


❸ Claw
❺ Torsion spring
❶ Claw
❻ Head base assy HP101(DECK-A) HRPE101(DECK-B)
❹ Lever (pinch lever REV) assy
❷ Lever (pinch lever FWD) assy

SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured alcohol-moistened swab:
   record/playback/erase head pinch roller
   rubber belts capstan
   idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustment.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

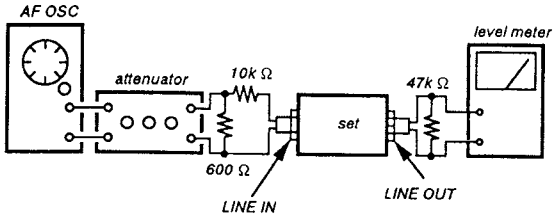
Torque	Torque meter	Meter reading
Forward	CQ-102C	30 to 65g • cm (0.42 to 0.9 oz • inch)
Forward back tension	CQ-102C	DECK-A : 1 to 6g • cm (0.014 to 0.083 oz • inch) DECK-B : 2 to 9g • cm (0.03 to 0.12 oz • inch)
Reverse	CQ-102RC	30 to 65g • cm (0.42 to 0.9 oz • inch)
Reverse back tension	CQ-102RC	1 to 6g • cm (0.014 to 0.083 oz • inch)
FF/REW	CQ-201B	70 to 120g•cm (0.98 to 1.66 oz•inch)

3-2. ELECTRICAL ADJUSTMENTS

PRECAUTION

1. The adjustment should be performed in the publication. (Be sure to male playback adjustment at first.)
2. The adjustments and measurement should be performed for both L-CH and R-CH.
   - Switch position
     DOLBY NR switch : OFF
     DIRECTION MODE switch : ⇄
   - Standard record position :
     Deliver the standard input signal level to input jack and set the REC LEVEL control to obtain the standard output signal level as follows.

– Record Mode –



Standard Input Level

Input terminal	LINE IN
source impedance	10k Ω
input signal level	0.5V (− 3.8dB)

Standard Output Level

Output terminal	LINE OUT
load impedance	47k Ω
output signal level	0.5V (− 3.8dB)

Test Tape

Tape	Contents	Use
P-4-A100	10kHz, − 10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

0dB=0.775V

Test Mode

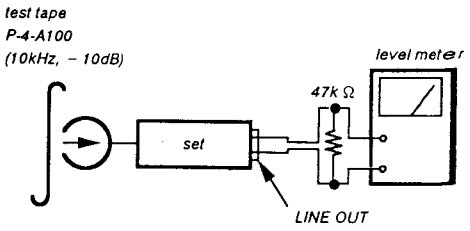
1. Insert a short-circuit plug into TP801 (2P) and turn ON the power switch.
   At first, all the fluorescent tubes light up, then the system returns to normal display. (However, "0,00" is not displayed on the counter.)
2. To release the test mode, remove the short plug and turn off the power switch.
3. Remove the short plug after completion of adjustment.

Record/Playback Head Azimuth Adjustment

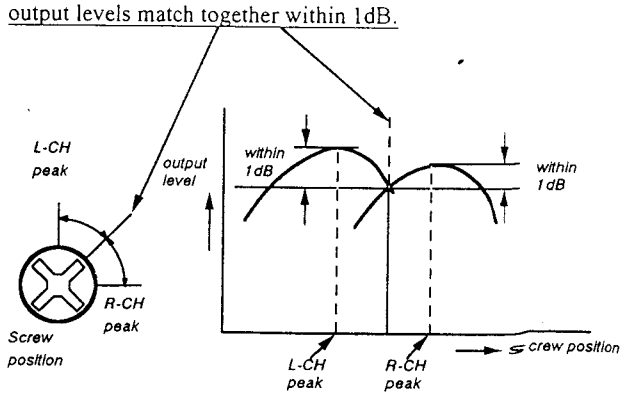
DECK-A DECK-B

Procedure :

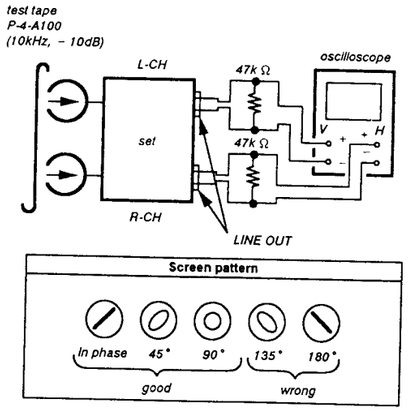
1. Forward playback Mode



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.



3. Playback Mode



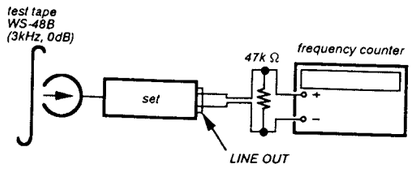
4. Change the reveres playback mode and repeat the steps 1 to 3.
5. After the adjustment, lock the adjustment screws with suitable locking compound.

Adjustment Location : – record/playback head –

Tape Speed Adjustment DECK-A DECK-B

Procedure :

– Forward Playback Mode –



(High speed adjustment)
1. Set to test mode. (Refer to page 7)
2. Set to FWD playback mode.
3. Keep on pressing the HIGH SPEED DUBBING switch.
4. Adjust RV72 so that the frequency counter reading becomes 6,000 ± 20Hz.
5. Release test mode after adjustment is completed.

(Normal speed adjustment)
1. Set to FWD playback mode.
2. Adjust RV71 so that the frequency counter reading becomes 3,000 ± 10Hz.

(Pitch control adjustment) (TC-WE505/WE705S only)
1. Turn ON the PITCH CONTROL switch.
2. Set RV902 to mechanical center.
3. Set to FWD playback mode.
4. Adjust RV601 so that the frequency counter reading becomes 3,000 ± 10Hz.

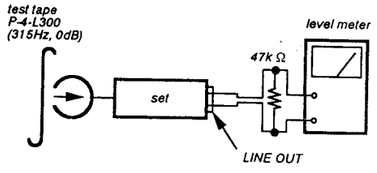
Frequency difference between the beginning and the end of the tape should be within 3%.
Frequency difference between the deck A and deck B the beginning of the tape should be within 1.5%.

Adjustment Location : AUDIO board, MAIN board. (See page 10)

Playback Level Adjustment DECK-A DECK-B

Procedure :

– Forward Playback Mode –



Adjust RV11(L-CH) and RV21(R-CH) so the level meter reading becomes the adjustment limits below.

Adjustment Value :

LINE OUT level : – 7.7 ± 0.5dB (0.301 to 0.338V)

Level difference between channels : within 0.5dB

Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

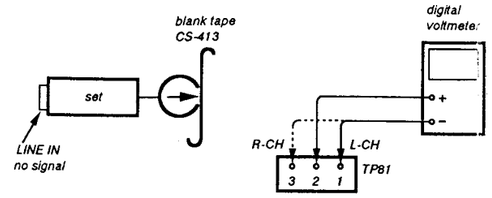
Adjustment Location : AUDIO board. (See page 10)

Bias Consumption Current Adjustment DECK-B

This adjustment should be performed when replacing the head assy or the bias oscillating transformer (T81, T91).

Procedure :

〈 〉: R-CH



1. Connect the digital voltmeter to test point TP81.
2. Set RV81〈RV91〉 to mechanical center.
3. Set to FWD record mode.
4. Adjust T81〈T91〉 so that the digital voltmeter reading becomes minimum.

Adjustment Value : Maximum 220mV

Adjustment Location : AUDIO board. (See page 10)

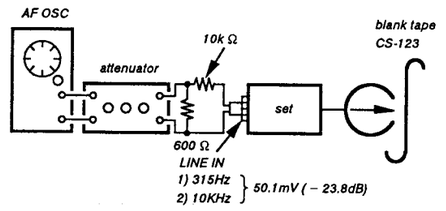
Record Bias Adjustment DECK-B

Setting :

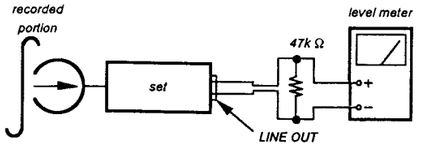
REC LEVEL control : standard record position (Refer to page 7.)

Procedure :

1. Record Mode



2. Playback Mode



Confirm that the 10kHz playback output is 0 ± 0.5dB relative to the 315Hz output. If necessary, adjust RV81 (L-CH), RV91(R-CH) and repeat the steps given above.

Adjustment Location : AUDIO board. (See page 10)

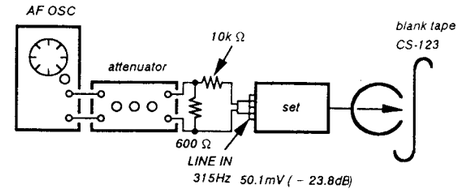
Record Level Adjustment DECK-B

Setting :

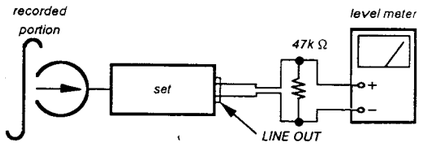
REC LEVEL control : standard record position (Refer to page 7.)

Procedure :

1. Record Mode



2. Playback Mode



Confirm playback the tape recorded become adjustment level as follows.
If necessary, adjust RV101(L-CH), RV201(R-CH) and repeat the steps 1 and 2.

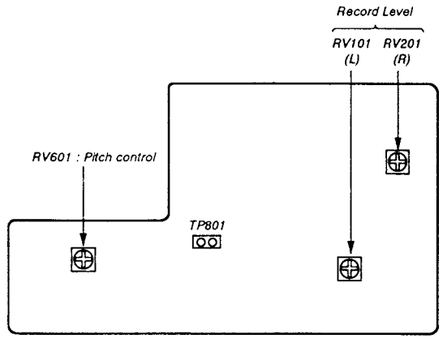
Adjustment Value :

LINE OUT level : – 23.8 ± 0.5dB (47.2 to 53mV)

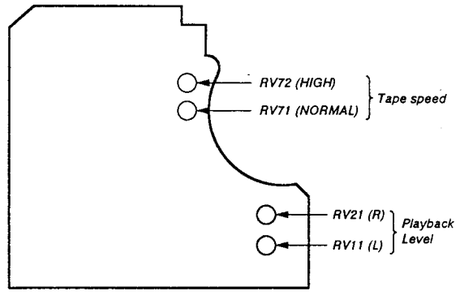
Adjustment Location : MAIN board. (See page 10)

– Adjustment Parts Location Diagrams –

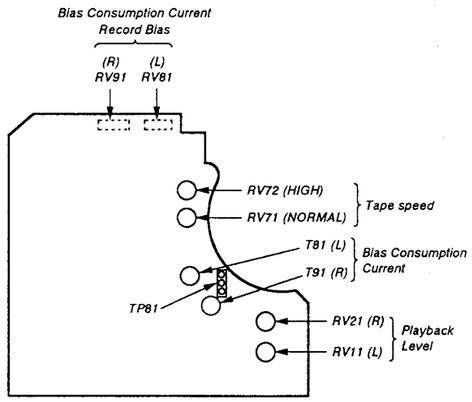
[MAIN BOARD]



DECK-A :
[AUDIO BOARD]



DECK-B :
[AUDIO BOARD]



SECTION 4
EXPLANATION OF IC TERMINALS

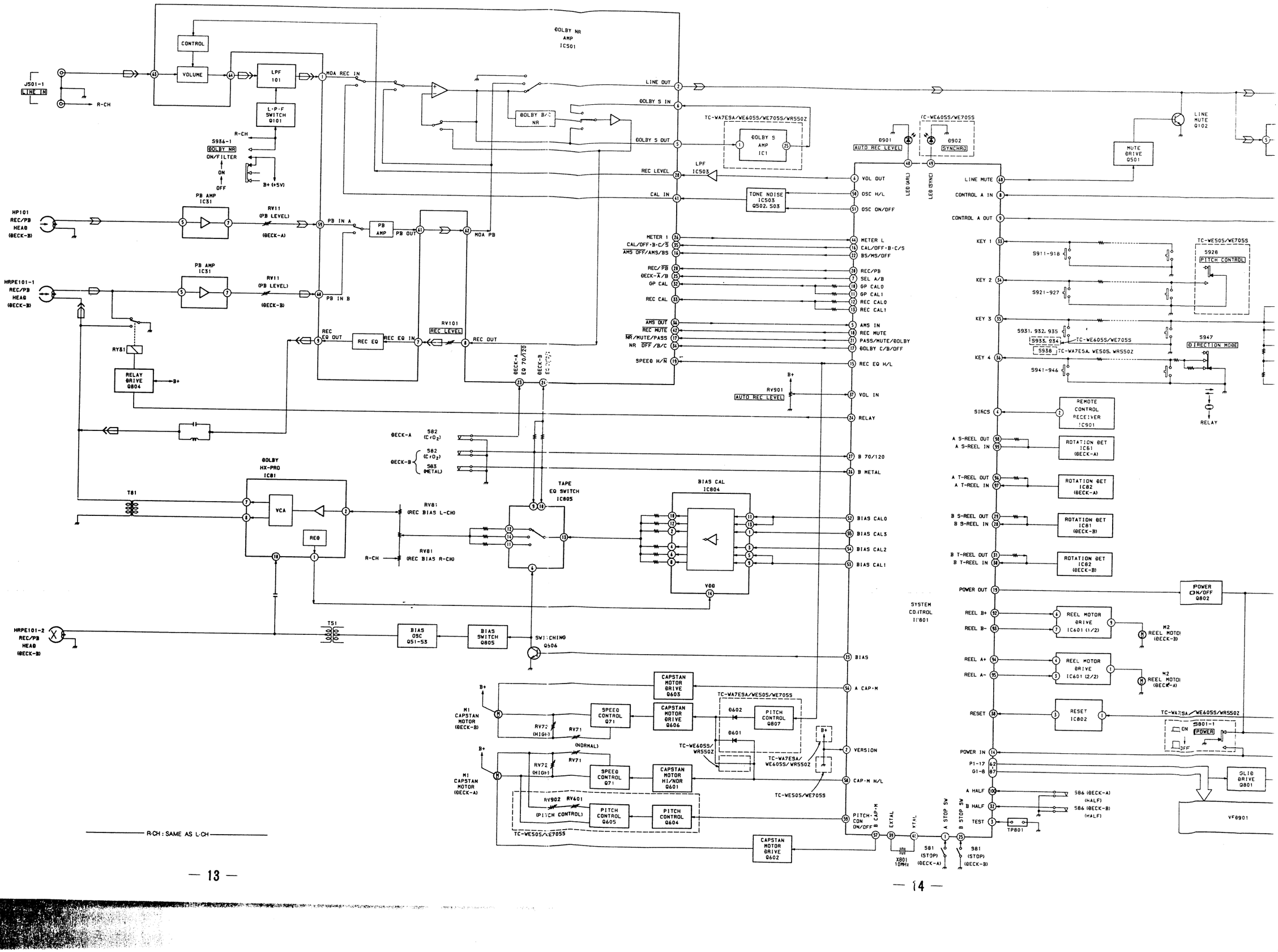
IC801 CXP8224-043Q (SYSTEM CONTROL/VFD DRIVE)

Pin No.	Pin name	I/O	Description
1	A STOP SW	I	Mechanism stop switch for deck-A. H : Stop
2	VERSION	I	Virsion select terminal.
3	TEST	I	Test mode select terminal. L : Test
4	SIRCS	I	Sircs signal input terminal.
5	AMS IN	I	AMS signal input terminal. L : Music present.
6	VOL OUT	O	REC level control output (PWM).
7	SEL A/B	O	Playback A/B selector. L : A, H : B
8	CONTROL A IN	I	Control A input.
9	CONTROL A OUT	O	Control A output.
10	GP CAL 0	O	GEQ CAL-0 output for auto calibration.
11	GP CAL 1	O	GEQ CAL-1 output for auto calibration.
12	REC CAL 0	O	Recording CAL-0 output for auto calibration.
13	REC COL 1	O	Recording CAL-1 output for auto calibration.
14	POWER IN	I	Power OFF Detection terminal.
15	REC EQ H/L	O	REC EQ high/normal select. L : Normal.
16	CAL/OFF, B, C/S	O	Audio Selector. H : CAL/Open : NR-OFF, B, C/L : NR-S.
17	DOLBY C/B/OFF	O	Dolby NR Selector. H : C/Open : B/L : OFF.
18	REC MUTE	O	Recording mute output. L : Mute ON, H : Mute OFF.
19	POWER OUT	O	Power hold output.
20	REC/PB	O	Dolby NR mode selector. L : Playback, H : Record.
21	PASS/MUTE/DOLBY	O	Audio selector. L : Dolby/Open : Mute/H : Pass.
22	BS/AMS/OFF	O	AMS amp selector. L : OFF/Open : AMS/H : OFF.
23	BIAS	O	Bias ON/OFF output. L : OFF, H : ON.
24	RELAY	O	Relay record/playback selector. L : Record.
25	B STOP SW	I	Mechanism stop switch for deck-B.
26	B METAL	I	Deck-B metal tape detection.
27	B 70/120	I	70/120 μ tape selector (deck-B). L : with claw.
28	B S-REEL IN	I	Supply reel rotation detection at deck-B.
29	B S-REEL OUT	O	Supply reel rotation detection at deck-B.
30	B T-REEL IN	I	Take-up reel rotation detection at deck-B.
31	B T-REEL OUT	O	Take-up reel rotation detection at deck-B.
32	B-HALF	I	Half pawl input at deck-B. (A/B converter)
33	KEY 1	I	KEY 1 input (A/D converter).
34	KEY 2	I	KEY 2 input (A/D converter).
35	KEY 3	I	KEY 3 input (A/D converter).
36	KEY 4	I	KEY 4 input (A/D converter).
37	VOL IN	I	Record volume input. (A/D converter)
38	$\overline{\text{RESET}}$	I	System reset input terminal.
39	EXTAL	I	System clock oscillator input. (10.0MHz)
40	EXTAL	O	System clock oscillator output. (10.0MHz)

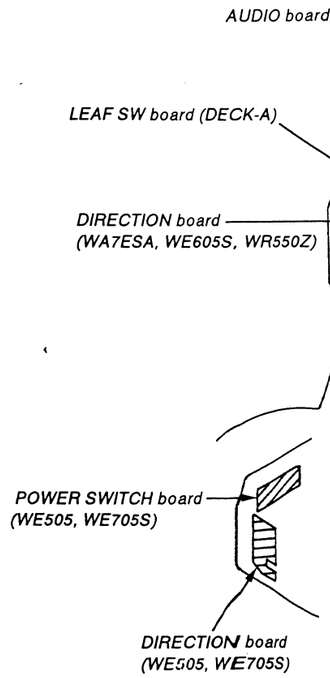
Pin No.	Pin name	I/O	Description
41	Vss	–	Ground.
42	TX	–	Not used. (Ground connection)
43	TEX	–	Not used. (Ground connection)
44	METER L	I	Meter L-CH input. (A/D converter)
45	METER R	I	Meter R-CH input. (A/D converter)
46	AVREF	I	Reference voltage input for A/D converter.
47	AVss	–	Ground for A/D converter.
48	LED (ARL)	O	ARL LED ON/OFF driver. H : ON.
49	LED (SYNC)	O	CD synchro LED ON/OFF drive. H : ON.
50	OSC H/L	O	OSC frequency H/L selection for auto calibration.
51	OSC ON/OFF	O	OSC ON/OFF output for auto calibration.
52	BIAS CAL 0	O	EQ bias CAL-0 output for auto calibration.
53	BIAS CAL 1	O	EQ bias CAL-1 output for auto calibration.
54	BIAS CAL 2	O	EQ bias CAL-2 output for auto calibration.
55	BIAS CAL 3	O	EQ bias CAL-3 output for auto calibration.
56	A CAP. M	O	Capastan motor ON/OFF control at deck-A. H : ON.
57	B CAP. M	O	Capastan motor ON/OFF control at deck-B. H : ON.
58	CAP. M H/L	O	Capastan motor high/normal selector. L : High.
59	PITCH. CON ON/OFF	O	Pitch control ON/OFF. H : ON.
60	LINE MUTE	O	Line mute ON/OFF output. L : Mute.
61 – 77	P17 – P1	O	VFD segment drive.
78 – 85	G1 – G8	O	VFD grid drive.
86	G6, G7	O	
87	G7, G8	O	
88	VFDP	–	VFD power. (– 28V)
89	VDD	–	Power supply. (+5V)
90	NC	–	Not used. (VDD connection)
91	Vss	–	Ground.
92	REEL B +	O	Reel motor (+) output at deck-B.
93	REEL B –	O	Reel motor (–) output at deck-B.
94	REEL A +	O	Reel motor (+) output at deck-A.
95	REEL A –	O	Reel motor (–) output at deck-A.
96	A T-REEL OUT	O	Take-up reel rotation detection at deck-A.
97	A T-REEL IN	I	Take-up reel rotation detection at deck-A.
98	A S-REEL OUT	O	Supply reel rotation detection at deck-B.
99	A S-REEL OUT	I	Supply reel rotation detection at deck-B.
100	A HALF	I	Half pawl input at deck-A. L : with claw.

SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM

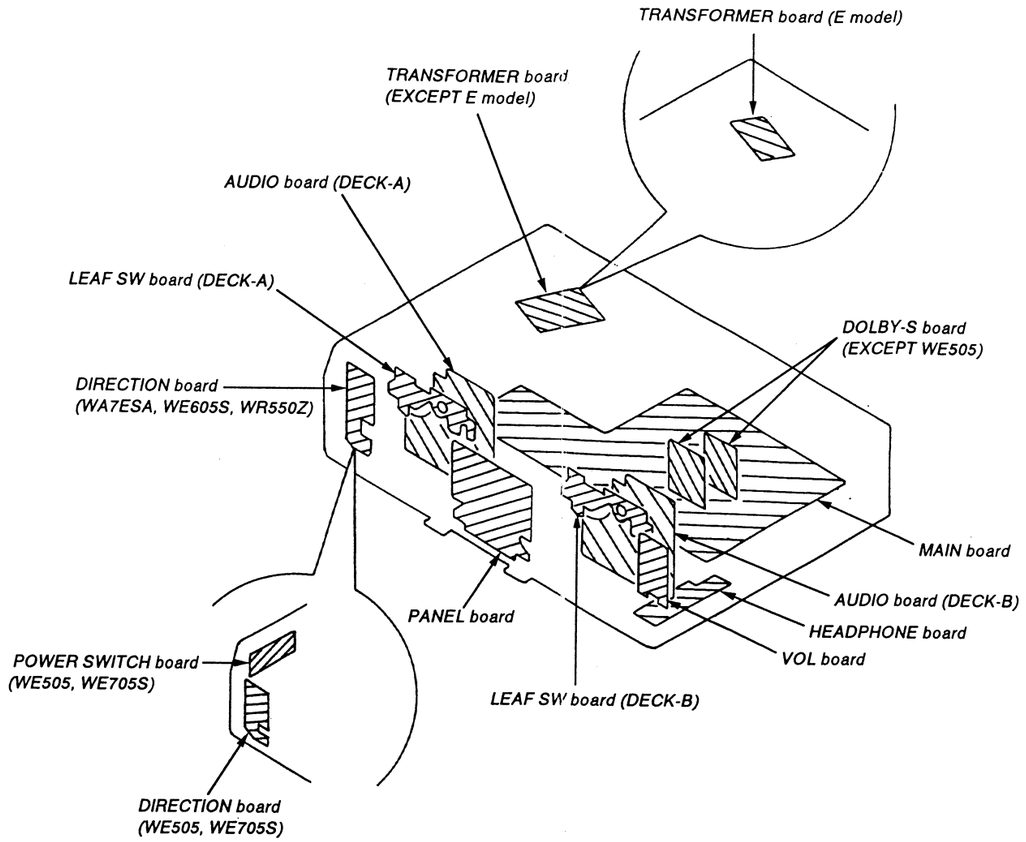


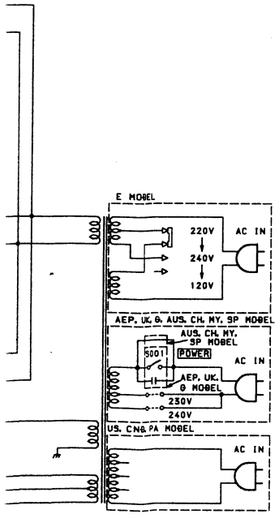
• CIRCUIT BOARDS LOCATION



- Signal path.
  - ▷ : PB (DECK A)
  - ▷ : PB (DECK B)
  - ▷» : REC (DECK B)
- Abbreviation
  - CND : Canadian
  - G : German
  - AUS : Australian
  - CH : Chinese
  - SP : Singapore
  - MY : Malaysia
  - PA : Panama

• CIRCUIT BOARDS LOCATION





• Signal path.
- : PB (DECK A)
- : PB (DECK B)
- : REC (DECK B)

• Abbreviation

CND	: Canadian
G	: German
AUS	: Australian
CH	: Chinese
SP	: Singapore
MY	: Malaysia
PA	: Panama

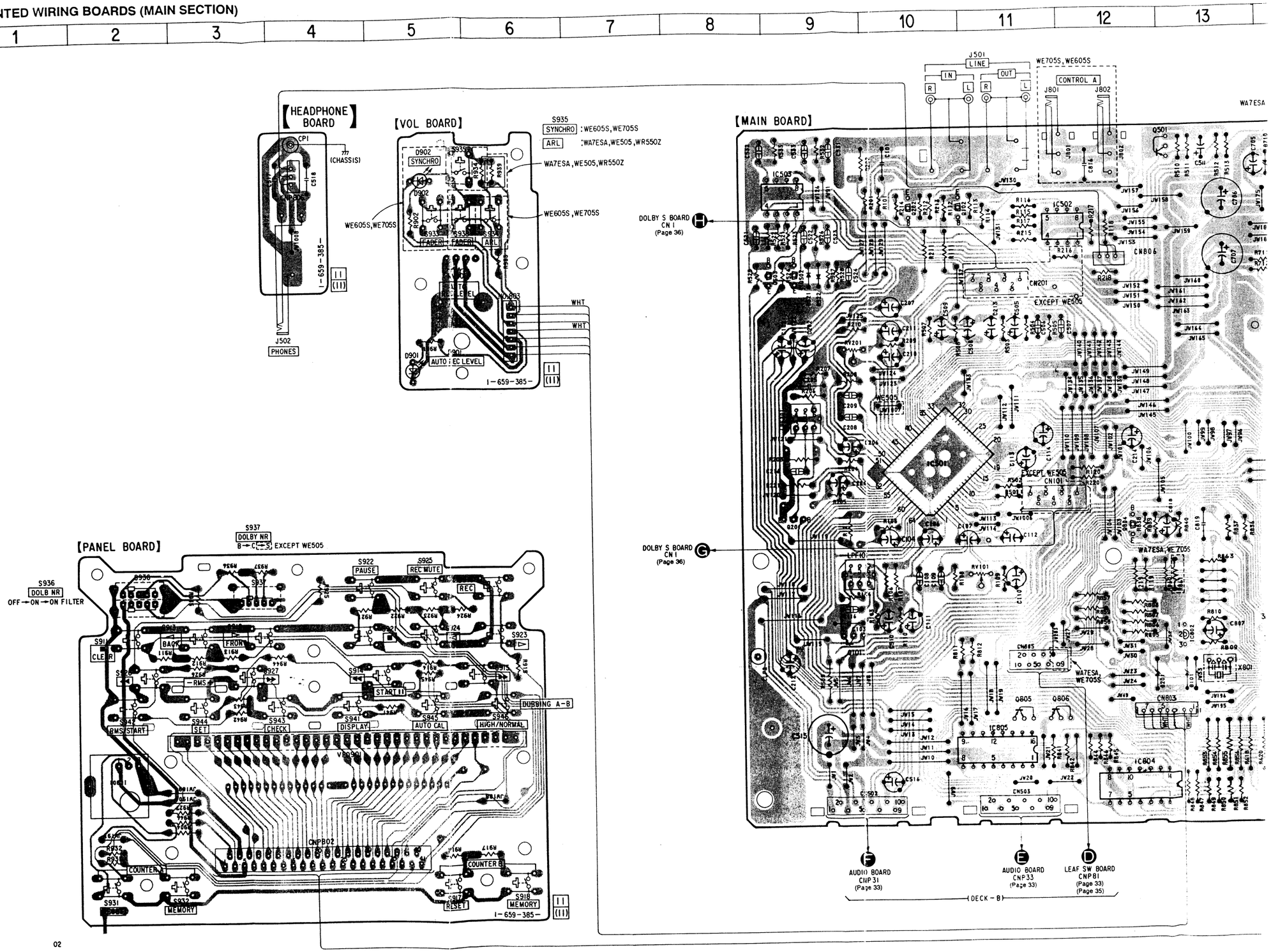
5-2. PRINTED WIRING BOARDS (MAIN SECTION)

• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D101	G - 13	IC801	F - 14
D201	G - 13	IC802	G - 13
D521	C - 9	IC804	H - 12
D522	C - 9	IC805	H - 11
D601	H - 17	IC901	H - 2
D602	H - 17		
D701	B - 16	Q101	G - 9
D702	B - 16	Q102	B - 10
D703	C - 16	Q201	E - 9
D704	C - 16	Q202	B - 10
		Q501	B - 13
D705	B - 16		
D706	B - 16	Q502	G - 9
D707	D - 16	Q503	G - 9
D708	B - 14	Q601	H - 17
D709	B - 14	Q602	H - 18
		Q603	H - 17
D710	B - 14		
D711	C - 14	Q604	H - 17
D712	B - 16	Q605	G - 19
D713	D - 16	Q606	H - 17
D714	D - 16	Q701	B - 15
		Q702	D - 14
D715	D - 15		
D716	D - 15	Q703	B - 16
D801	G - 15	Q704	B - 16
D802	G - 15	Q705	B - 14
D803	G - 16	Q706	B - 16
		Q707	D - 16
D804	G - 16		
D805	E - 15	Q708	D - 15
D901	D - 5	Q709	B - 14
D902	B - 2	Q801	G - 15
		Q802	E - 16
		Q803	E - 15
IC501	E - 10		
IC502	B - 12	Q804	E - 12
IC503	B - 9	Q805	G - 11
IC601	F - 18	Q806	G - 11
IC701	G - 14	Q807	H - 17

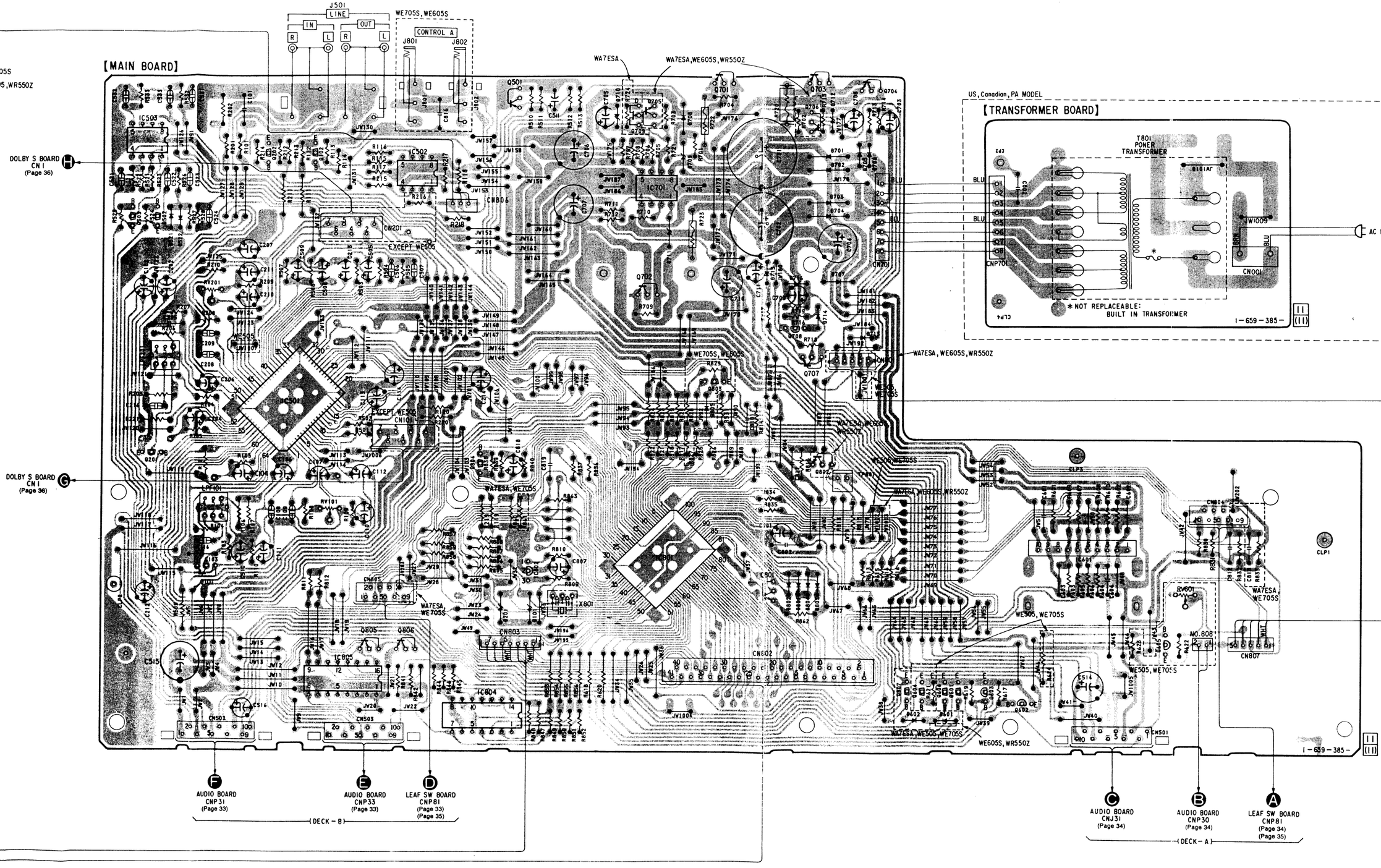
Note:

- O— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.
- Abbreviation
  - CND : Canadian
  - G : German
  - AUS : Australian
  - CH : Chinese
  - SP : Singapore
  - MY : Malaysia
  - PA : Panama



,WE705S
,WE505,WR550Z
550Z

【MAIN BOARD】

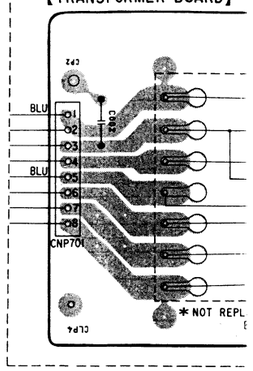


US, Canadian, PA MODEL

【TRANSFORMER BOARD】

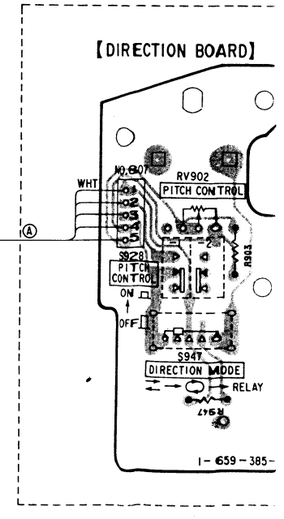
AEP, UK, G, AUS, CH, MY, SP MODEL

【TRANSFORMER BOARD】



TC-WE505/WE705S

【DIRECTION BOARD】

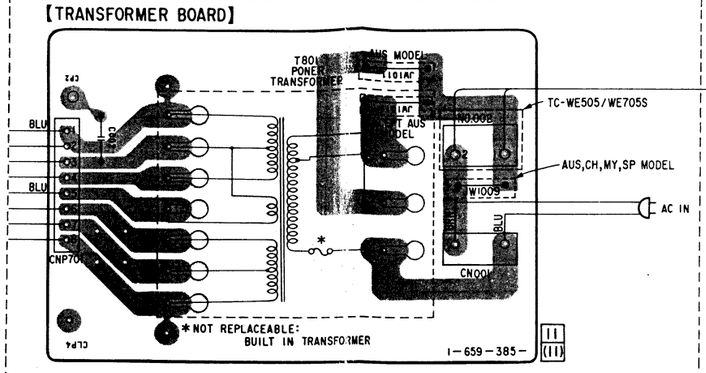


US, Canadian, PA MODEL

【TRANSFORMER BOARD】

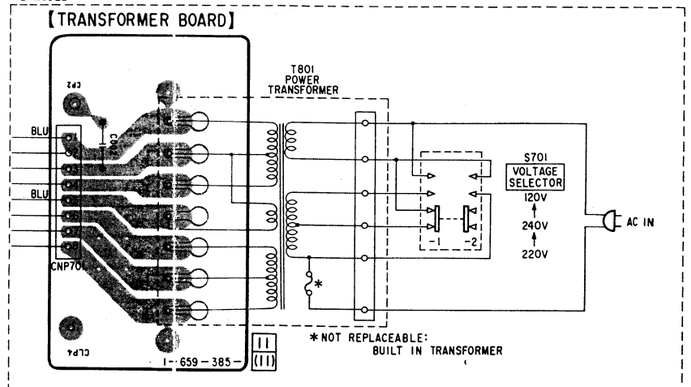
AEP, UK, G, AUS, CH, MY, SP MODEL

【TRANSFORMER BOARD】

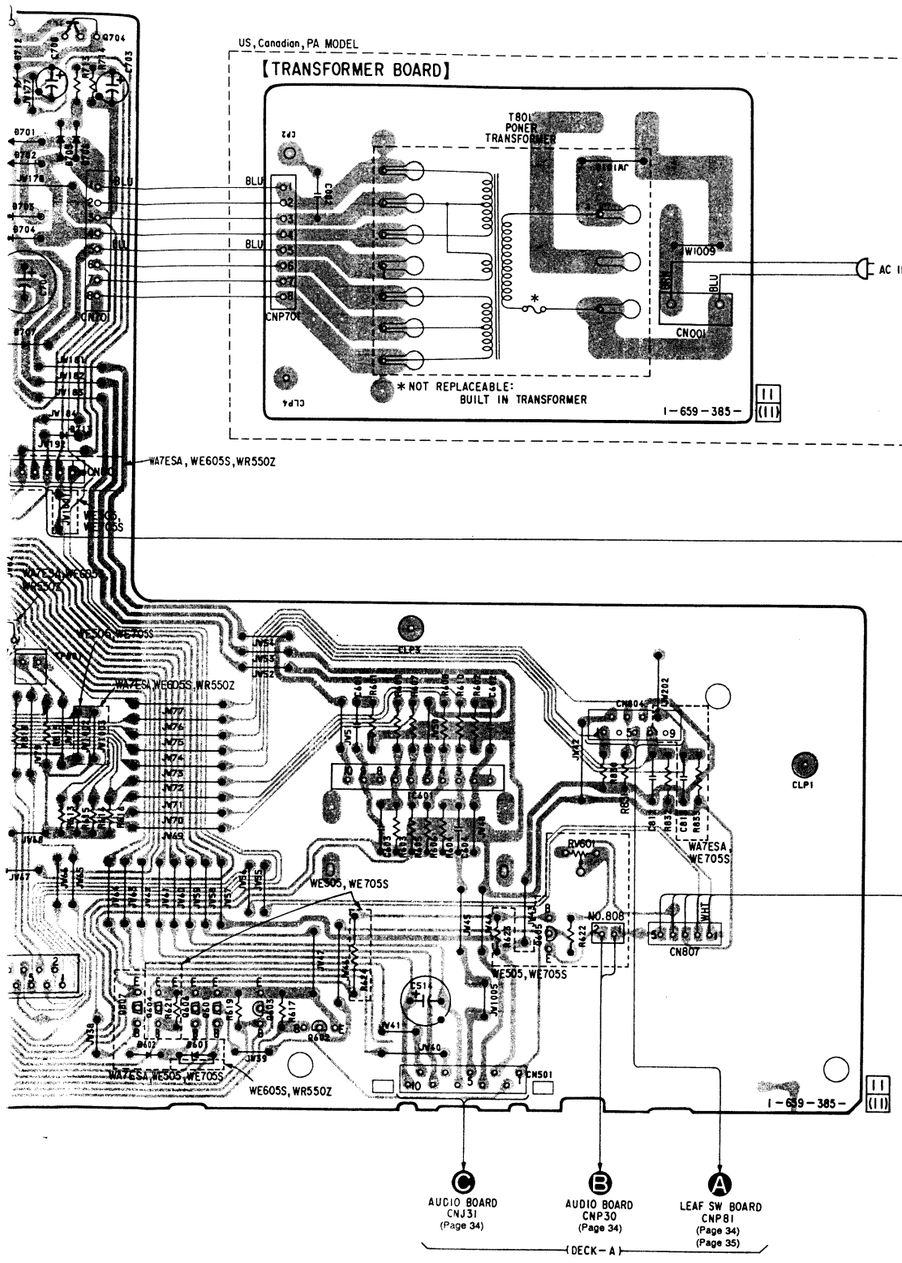


E MODEL

【TRANSFORMER BOARD】

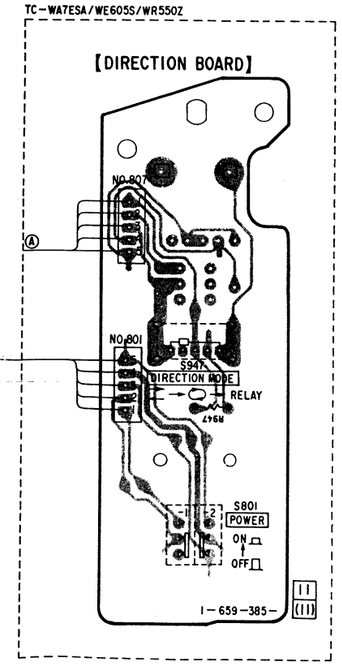


WA7ESA, WE605S, WR550Z



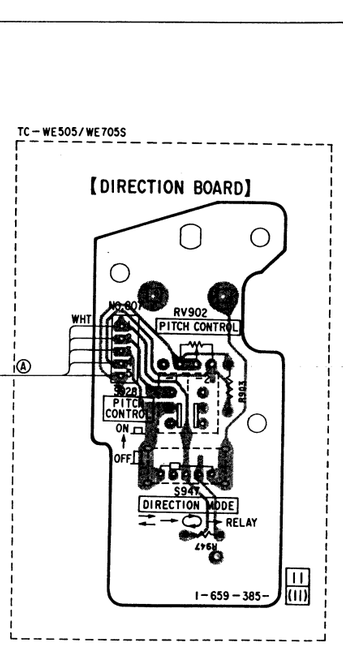
TC-WA7ESA/WE605S/WR550Z

【DIRECTION BOARD】



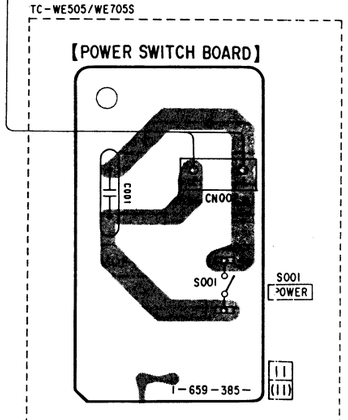
TC-WE505/WE705S

【DIRECTION BOARD】



TC-WE505/WE705S

【POWER SWITCH BOARD】



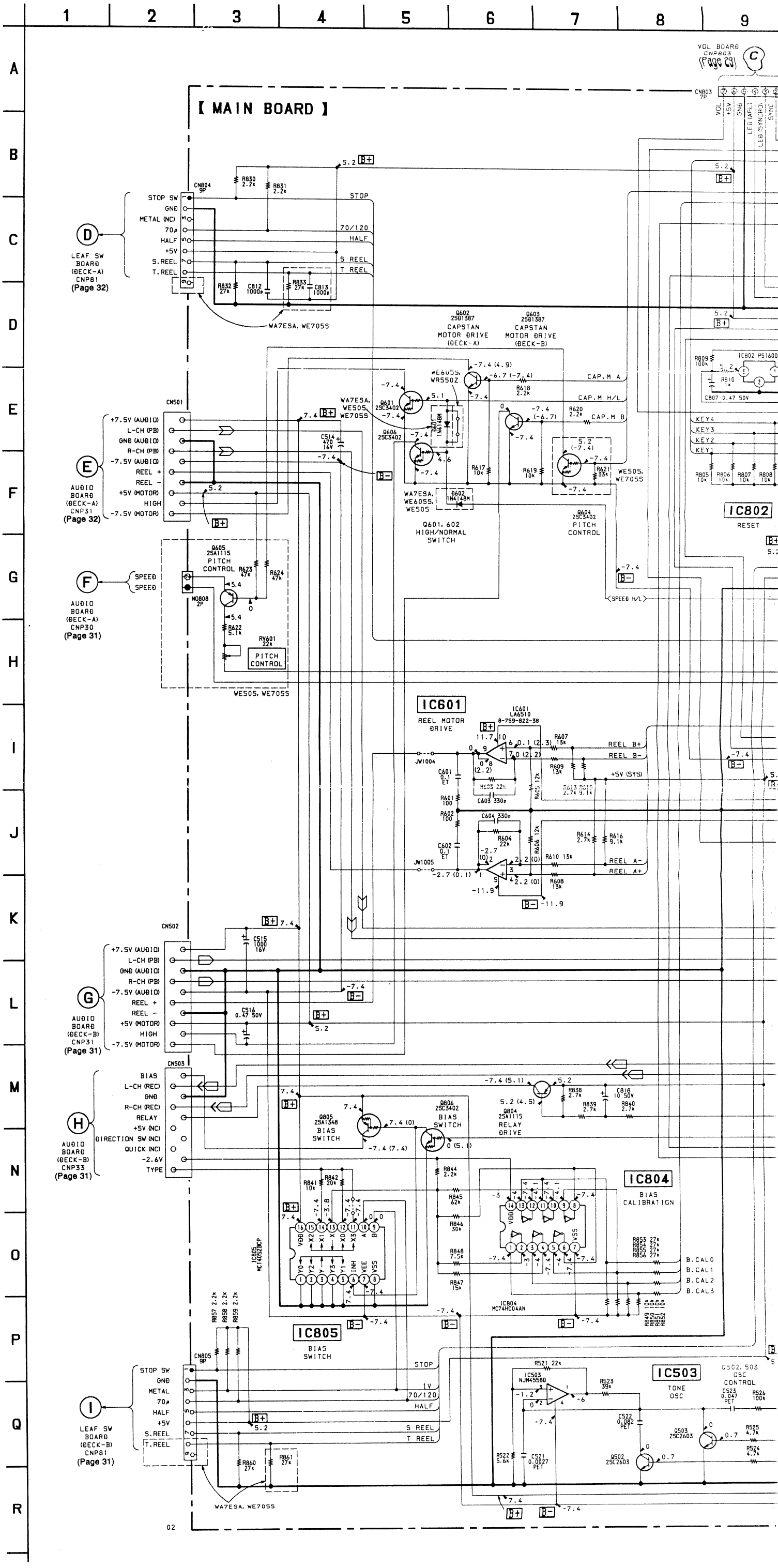
Ⓒ AUDIO BOARD CNJ31 (Page 34)

Ⓑ AUDIO BOARD CNP30 (Page 34)

Ⓐ LEAF SW BOARD CNP81 (Page 34) (Page 35)

(DECK-A)

5-3. SCHEMATIC DIAGRAM (MAIN SECTION)



【 MAIN BOARD 】

IC801 SYSTEM CONTROL

IC802 RESET

IC601 REEL MOTOR DRIVE

IC804 BIAS CALIBRATION

IC805 BIAS SWITCH

IC503 TONE OSC

IC501 DOLBY NR

Q601, 602 HIGH/NORMAL SWITCH

Q604 2SC3402 PITCH CONTROL

Q602 2SD1387 CAPSTAN MOTOR DRIVE (DECK-A)

Q603 2SD1387 CAPSTAN MOTOR DRIVE (DECK-B)

Q605 2SA1115 PITCH CONTROL

Q807 2SA1345 SPEED H/L SWITCH

Q805 2SA1348 BIAS SWITCH

Q806 2SC3402 BIAS SWITCH

Q804 2SA1115 RELAY DRIVE

Q502, 503 OSC CONTROL

VOL BOARD CNP803 (Page 29)

LEAF SW BOARD (DECK-A) CNP81 (Page 32)

AUDIO BOARD (DECK-A) CNP31 (Page 32)

AUDIO BOARD (DECK-A) CNP30 (Page 31)

AUDIO BOARD (DECK-B) CNP31 (Page 31)

LEAF SW BOARD (DECK-B) CNP81 (Page 31)

WA7ESA, WE505, WE705S

WE505, WE705S

	PIN
SCHMITT	1-5,
AD	32-3
C-MOS	6, 7,
C-MOS	8-14,
P-CH	47-8

VOL BOARD
CNP803
(Page 29)

PANEL BOARD
CNP802
(Page 29)

CN803 7P — VOL, +5V, GND, LED (ARL), LED (SYNCRO), SYNC, ARL

CN802 41P — MPX, SYNC, ARL, KEY1, KEY2, KEY3, KEY4, P17, P16, P15, P14, P13, P12, P11, P10, P9, P8, P7, P6, P5, P4, P3, P2, P1, G1, G2, G3, G4, G5, G6, G7, G8, VFDP, F1, F2, +5V, D.GND, PITCH, DIR, SIRCS

IC801
SYSTEM CONTROL

	PIN NO.	ON RESET
SCHMITT	1-5, 100P	HI-Z
AD	32-37, 44, 45P	HI-Z
C-MOS	6, 7, 15P	H
C-MOS	8-14, 17-31, 92-99P	HI-Z
P-CH	47-87P	HI-Z L (OPT)

50 OSC H/L
49 LED (SYNC)
48 LED (ARL)
47 AVSS
46 AVREF
45 METER R
44 METER L
43 TEX
42 TX
41 VSS
40 XTAL
39 EXTAL
38 RESET
37 VOL IN
36 KEY 4
35 KEY 3
34 KEY 2
33 KEY 1
32 B HALF
31 B T-REEL OUT

IC802 PST600E — X801 10MHz — D201 UZ-5.1B — D202 UZ-5.1B — R809 100k — R810 1k — C807 0.47 50V

R863 100 — KEY4, KEY3, KEY2, KEY1 — R805 10k, R806 10k, R807 10k, R808 10k — C819 0.1 ET

IC802
RESET

R837 220k — R836 220k — T REEL / S REEL — 70/120 — STOP — B STOP:5.3 (5.2) 0

B T-REEL IN, B S-REEL OUT, B S-REEL IN, B 70/120, B METAL, B STOP SW, RELAY, BIAS, BS/AMS/OFF, PASS/MUTE/DOLBY, REC/PB, POWER OUT, REC MUTE, DOLBY C/B/OFF, CAL/OFF, B. C/S, REC EQ H/L, POWER IN, REC CAL1, REC CAL0, GP CAL1, GP CAL0, CONTROL A OUT, CONTROL A IN, SEL A/B, VOL OUT, AMS IN, SIRCS, TEST, VERSION, A STOP SW

30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

R822 2.4k, R821 12k, R818 4.7k, R817 5.6k, R823 4.7k, R819 8.2k, R824 4.7k, R820 8.2k, R814 22k, R813 100, C810 22000p, TP801 2P, JW1003, JW1002, R815 33k

DOLBY OFF;0, DOLBY B;2.1, DOLBY C;5.2, DOLBY S;0

IC801 CXP82220-040Q

A T-REEL OUT 96, A T-REEL IN 97, A S-REEL OUT 98, A S-REEL IN 99, A HALF 100

REEL B+ 92, REEL B- 93, REEL A+ 94, REEL A- 95

R835 220k — T REEL
R834 220k — S REEL
HALF 100

TEST MODE
JW1003:WA7ESA. WE605S. WR550Z
JW1002:WE505. WE705S

Q807 2SA1345 SPEED H/L SWITCH — WA7ESA. WE505. WE705S
R812 22k, R811 22k — I II IV

BS/AMS/OFF, PASS/MUTE/DOL, REC/PB, REC MUTE, OFF/B/C, CAL/OFF/S, EQ H/L, REC CAL, GP CAL

STOP

Q801 2SC3399 — D801 1N4148M, D802 1N4148M, D803 1N4148M, D804 1N4148M — R862 100k

G4 81, G5 82, G6 83, G7 84, G8 85, G6, G7 86, G7, G8 87, VFDP 88, VDD 89, NC 90, VSS 91

C801 22000p — C801 100 10V

WE705S, WE605S
Q803 2SC2603 BUFFER — J801 CONTROL A — J802 CONTROL A
R826 10k, R825 10k, R827 4.7k, R828 10k, R829 10, C816 0.1

R816 100k — C811 0.1 ET — Q802 2SC3901 POWER ON/OFF — WA7ESA. WE605S. WR550Z

R815 33k

Q101 2SC3901 — R103 100k — C116 0.0039 PET — R107 1k — R509 1k — C510 50V — 3.9

WE505 — R108 3.9k — R110 4.7k — C112 4.7 50V — C113 4.7 50V — RV101 10k CFA — DOLBY LEVEL (L)

LPF101 — R106 3k — C106 4.7 50V — C107 10 50V — C108 0.1 PET — C109 0.068 PET — C103 4700p — LPF

R109 10k — C110 10 50V — C111 0.47 50V — R501 27k MF — R502 20k MF — R503 1k — R504 8.2k — C505 1 50V — C506 0.047 PET — C507 0.12 — C508 0.47 50V — C509 22 50V — C210 10 50V — C212 4.7 50V — C211 0.47 50V — C213 4.7 50V

BS/AMS/OFF, PASS/MUTE/DOL, EQ H/L

1 -6.1, 2 -5.8, 3 -7.4, 4 -7.4, 5 -7.4, 6 -7.4, 7 -24, 8 -24, 9 -34, 10 -6.2, 11 -6.2, 12 0, 13 0, 14 0, 15 0, 16 0, 17 0, 18 0, 19 0

MOA REC-IN1, LINE-OUT1, DOLBY-TCH1, DOLBY-TCL1, DOLBY-S-OUT1, DOLBY-S-IN1, REC-EQIN1, REC-OUT1, REC-EQOUT1, IREF, DOLBY-IREF, METER C1, TYPE-N, TYPE-C, TYPE-N, TAPE-TYPE, AMS OFF /AMS/ BS, METER MUTE, SPEED H/M

REC-EQ

R104 1.8k — VOL-OUT1 -10dBV 64
VOL-IN1 (REC.BAL.VOL) -10dBV 63
MOA PB IN1 -11dBV 62
PB-OUT1 -11dBV 61
PB-IN1 -31dBV 60
PB-IN2 -31dBV 59
GND 58
PB-IN2 -31dBV 57
PB-IN1 -31dBV 56
PB-OUT2 -11dBV 55
MOA PB IN2 -11dBV 54
VOL-IN2 (REC.BAL.VOL) -10dBV 53
VOL-OUT2 -10dBV 52

C104 4.7 50V — R121 47k — R105 3.3k — C204 4.7 50V — R221 47k — R205 3.3k

CXA1878Q

OFF, ON CAL, REC, PB — MOA — PB EQ — NR — DOLBY B/C NR — B/C — S — CAL — SSW DOLBY — LINE AMP — REC PASS — MUTE

L ACTIVE --
M ACTIVE ++

REC/PB 20 0 (5.2)
VCC 21 7.4
D.VCC 22 5.2
DECK-AEQ 70/70/120 23 0
DECK-BEQ IV/III/I 24 0.4
DECK-A/B 25 0
METER1 1.6V 26 1
METER2 (CAL.17.5dBv) 27 1
REC-LEVEL 28 0
BALANCE 29
D-GND 30
VEE 31 -7.4
GP-CAL 32 2.6

70/120 R119 1k — R219 1k — I II IV — SEL A/B
R120 47k — C114 2.2 50V — C214 2.2 50V — R220 47k

GP CAL, REC CAL, OFF/B/C, CAL/OFF/S, REC MUTE

DOLBY B:2.1, DOLBY C:5.2, DOLBY S:0

IC501
DOLBY NR

IC501 CXA1878Q

51 MOA REC-IN2 -24dBV
50 LINE-OUT2 -10dBV
49 DOLBY-TCH2 -6.4
48 DOLBY-TCL2 -5.9
47 DOLBY-S-OUT2 -7dBV
46 DOLBY-S-IN2 -7dBV
45 REC-EQIN2 -24dBV
44 REC-OUT2 -7dBV
43 REC-EQOUT2 -34dBV
42 REC MUTE
41 CAL-IN -24dBV
40 METER C2
39 AMS-FB
38 AMS-FB
37 AMS-IC
36 AMS-OUT
35 CAL/OFF:B:C/S
34 NR-OFF/B/C
33 REC-CAL 2.6

R204 1.8k — LPF201 — R206 3k — C206 4.7 50V — C207 10 50V — C208 0.1 PET — C209 0.068 PET — C203 4700p — C216 0.0039 PET — R207 1k — R203 100k

Q201 2SC3901 — WE505 — R210 4.7k — R507 10k — R508 470 — RV201 10k CFA — R208 3.5k

DOLBY C:2.1, DOLBY S:0

IC503
TONE OSC

Q502, 503 OSC CONTROL — C523 0.047 PET — R526 100k — R525 4.7k — R524 4.7k — Q503 2SC2603

D521 1N4148M, D522 1N4148M — R527 100k — R528 7.5k — C524 0.0022 PET — R221 47k — R121 47k — C531 0.18 TF — C532 0.01 PET

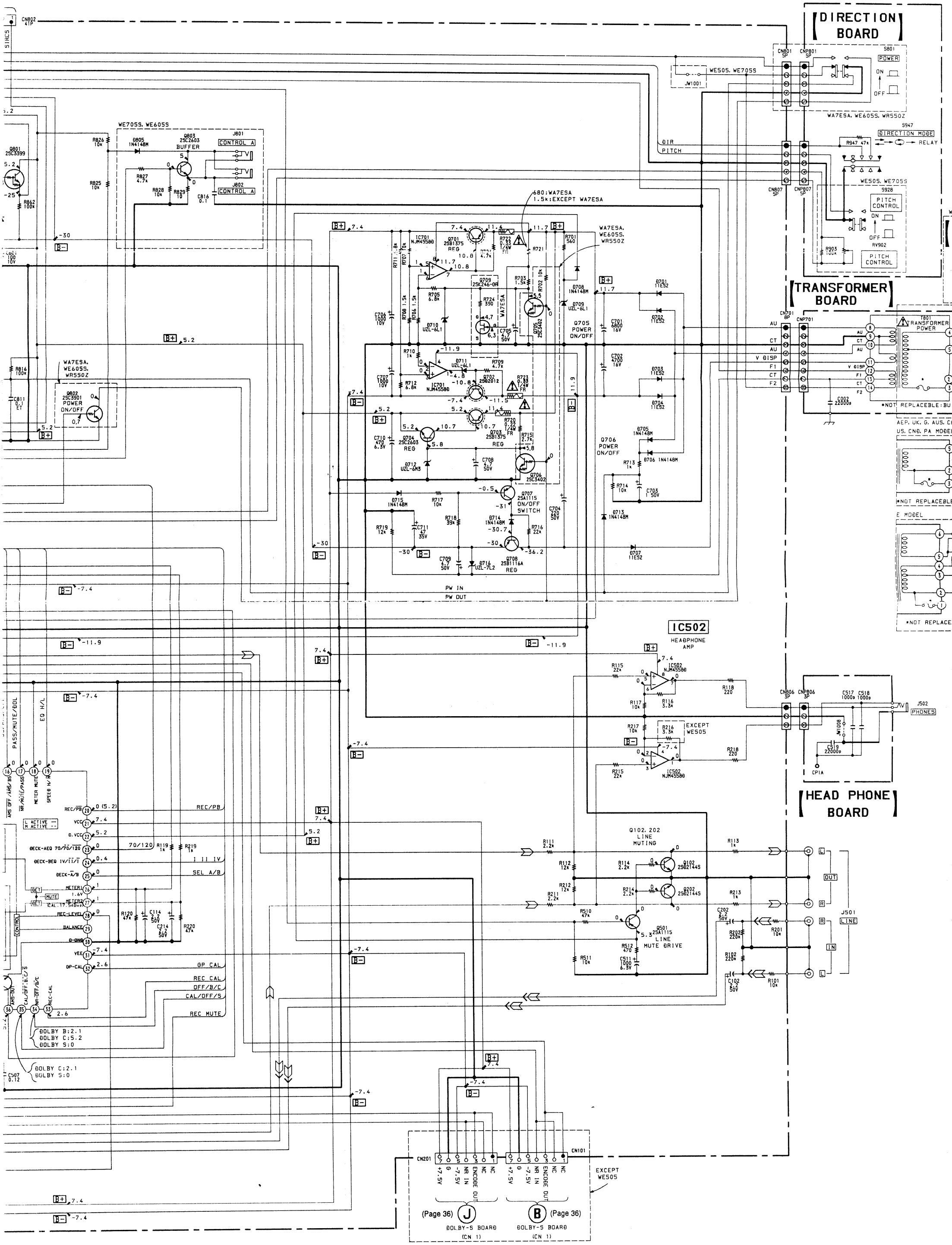
C533 0.68 TF — R531 47k, R532 47k, R533 47k — IC503 NJM4558D

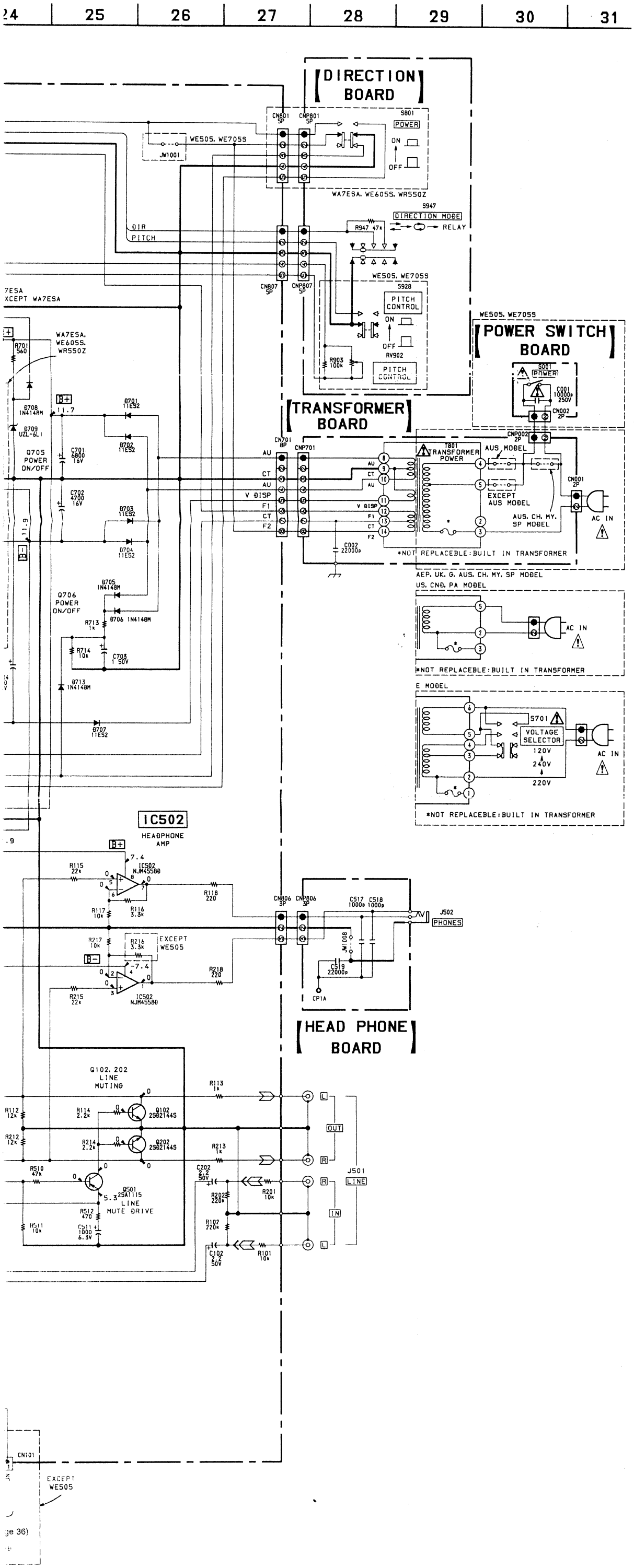
RV201 DOLBY LEVEL (R)

IC804
BIAS CALIBRATION

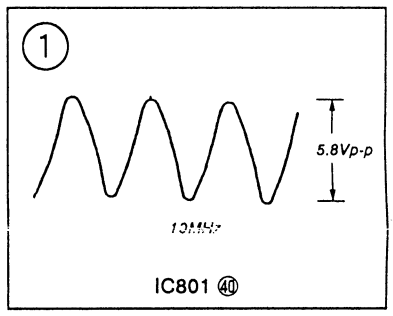
R853 27k, R854 27k, R855 27k, R856 27k — B.CAL0, B.CAL1, B.CAL2, B.CAL3
R849 10k, R850 10k, R851 10k, R852 10k

B+ 5.2 — B+ 7.4 — B- -7.4 — B- -11.9 — B- -30


DIRECTION BOARD
CN801 5P
CNP801 5P
S801
POWER
ON
OFF
WA7ESA, WE605S, WR550Z
WE505, WE705S
JW1001
S947
DIRECTION MODE
R947 47k
RELAY
DIR
PITCH
CN807 5P
CNP807 5P
S928
PITCH CONTROL
R903 100k
RV902
TRANSFORMER BOARD
CN701 8P
CNP701
T801 TRANSFORMER POWER
AU
CT
V 8ISP
F1
F2
C002 22000p
*NOT REPLACEBLE:BUIL
AEP, UK, G, AUS, CH,
US, CND, PA MODEL
E MODEL
*NOT REPLACEBLE:
*NOT REPLACEBL
WE705S, WE605S
Q801 2SC3399
Q803 2SC2603 BUFFER
D805 1N4148M
J801 CONTROL A
J802 CONTROL A
R826 10k
R825 10k
R827 4.7k
R828 10k
R829 10
C816 0.1
R862 100k
C801 100 10V
680:WA7ESA
1.5k:EXCEPT WA7ESA
WA7ESA, WE605S, WR550Z
Q701 2SB1375 REG
IC701 NJM45580
R722 0.33 1/4W FR
R721 4.7k
R701 560
R711 8.8k
R707 10k
R703 1.5k
R702 10k
R705 6.8k
R724 390
Q709 2SK246-GR
Q705 2SC3402
D708 1N4148M
D709 UZL-6L1
D710 UZL-6L1
R708 1.5k
R706 1.5k
C706 1000 10V
C705 4.7 50V
Q705 POWER ON/OFF
D701 11ES2
D702 11ES2
D703 11ES2
D704 11ES2
C701 4800 16V
C702 4700 16V
R710 1k
D711 UZL-6L1
R709 4.7k
R723 0.33 1/2W FR
Q702 2SB2012
R712 6.8k
C707 1000 10V
IC701 NJM45580
R720 0.22 1/4W FR
Q703 2SB1375 REG
R715 2.7k
C710 470 6.3V
Q704 2SC2603 REG
D712 UZL-6M3
C708 4.7 50V
Q706 2SC3402
Q706 POWER ON/OFF
D705 1N4148M
D706 1N4148M
R713 1k
R714 10k
C703 1 50V
D713 1N4148M
D715 1N4148M
R717 10k
R718 39k
D714 1N4148M
R716 22k
R719 12k
C711 47 35V
Q707 2SA1115 ON/OFF SWITCH
C704 220 50V
C709 4.7 50V
D716 UZL-7L2
Q708 2SB1116A REG
D707 11ES2
PW IN
PW OUT
Q802 2SC3901 POWER ON/OFF
R816 100k
C811 0.1 ET
IC502
HEADPHONE AMP
R115 22k
R116 3.3k
R117 10k
R118 220
R217 10k
R216 3.3k
EXCEPT WE505
R215 22k
R218 220
IC502 NJM45580
CN806 3P
CNP806 3P
C517 1000p
C518 1000p
J502 PHONES
JW1008
C519 22000p
CP1A
HEAD PHONE BOARD
PASS/MUTE/BOL
EQ H/L
REC/PB
VCC
D.VCC
DECK-AEQ 70/70/120
DECK-BEQ IV/III/I
DECK-A/B
METER1
METER2
MUTE
REC-LEVEL
BALANCE
D-GND
VEE
GP-CAL
REC CAL
OFF/B/C
CAL/OFF/S
REC MUTE
DOLBY B:2.1
DOLBY C:5.2
DOLBY S:0
DOLBY C:2.1
DOLBY S:0
70/120
R119 1k
R219 1k
I II IV
SEL A/B
R120 47k
C114 2.2 50V
C214 2.2 50V
R220 47k
C507 0.12
Q102, 202 LINE MUTING
Q102 2SD2144S
Q202 2SD2144S
R111 2.2k
R112 12k
R114 2.2k
R212 12k
R214 2.2k
R211 2.2k
R510 47k
Q501 2SA1115 LINE MUTE DRIVE
R512 470
C511 1000 6.3V
R511 10k
R113 1k
R213 1k
C202 2.2 50V
R202 220k
R201 10k
R102 220k
C102 2.2 50V
R101 10k
J501 LINE
OUT
IN
CN201
CN101
+7.5V
G
-7.5V
NR IN
ENCODE OUT
NC
EXCEPT WE505
(Page 36) J DOLBY-S BOARD (CN 1)
(Page 36) B DOLBY-S BOARD (CN 1)



• WAVEFORM – MAIN SECTION –



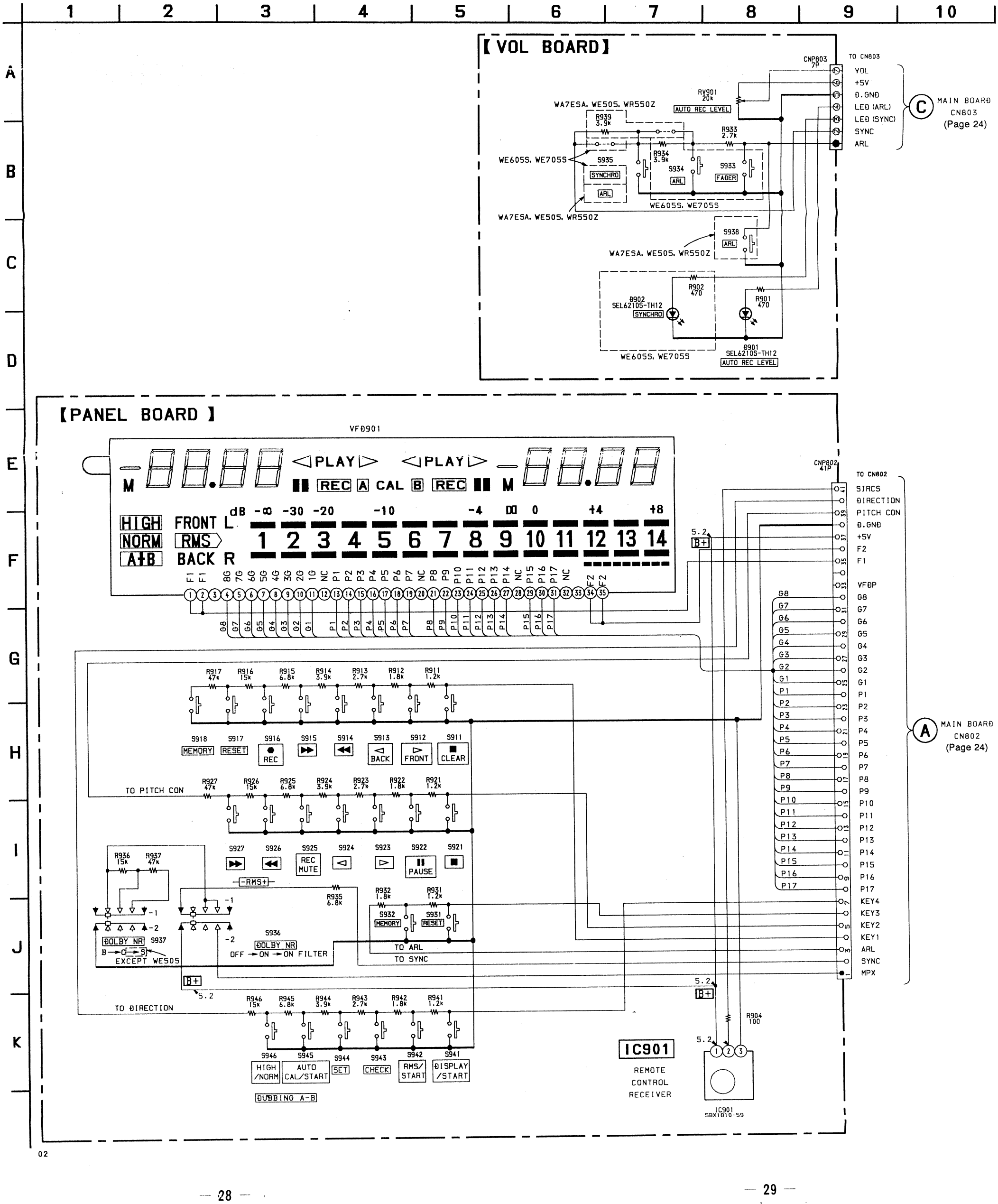
Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- : fusible resistor.

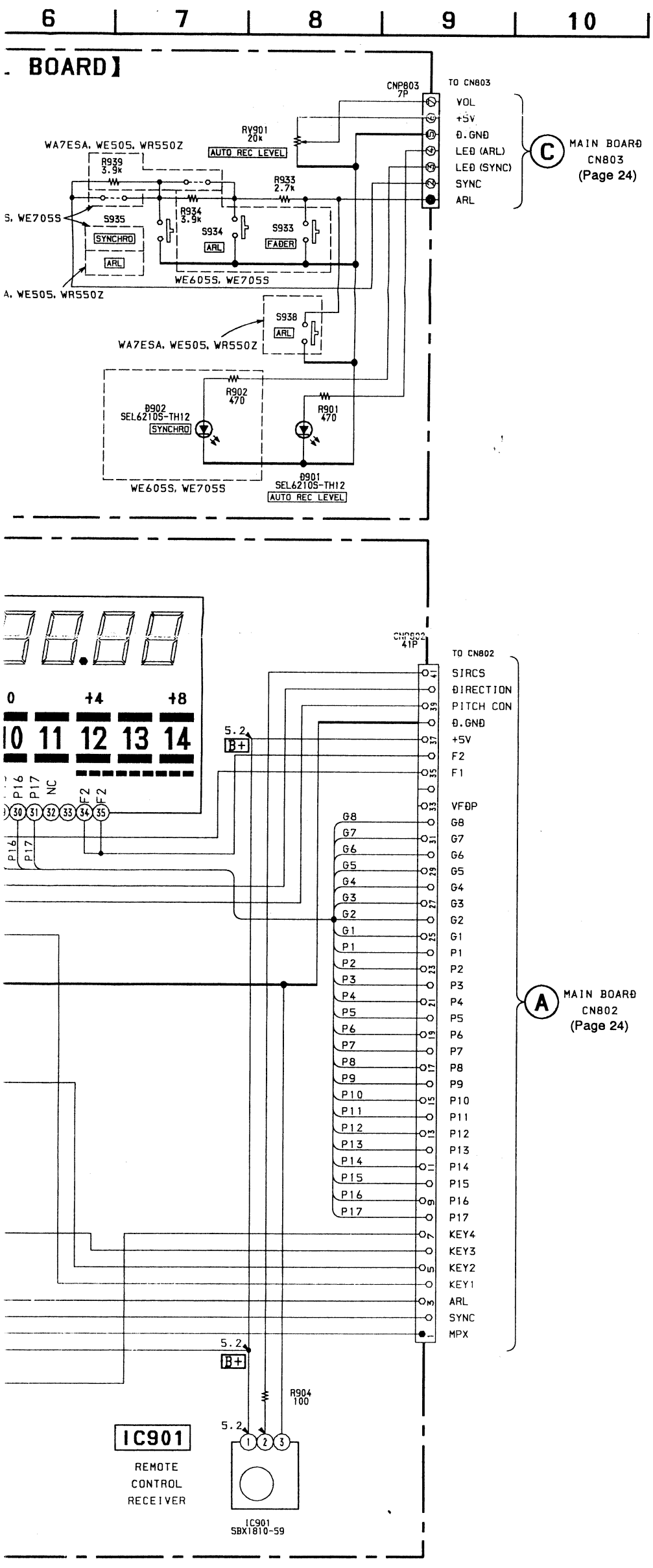
Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

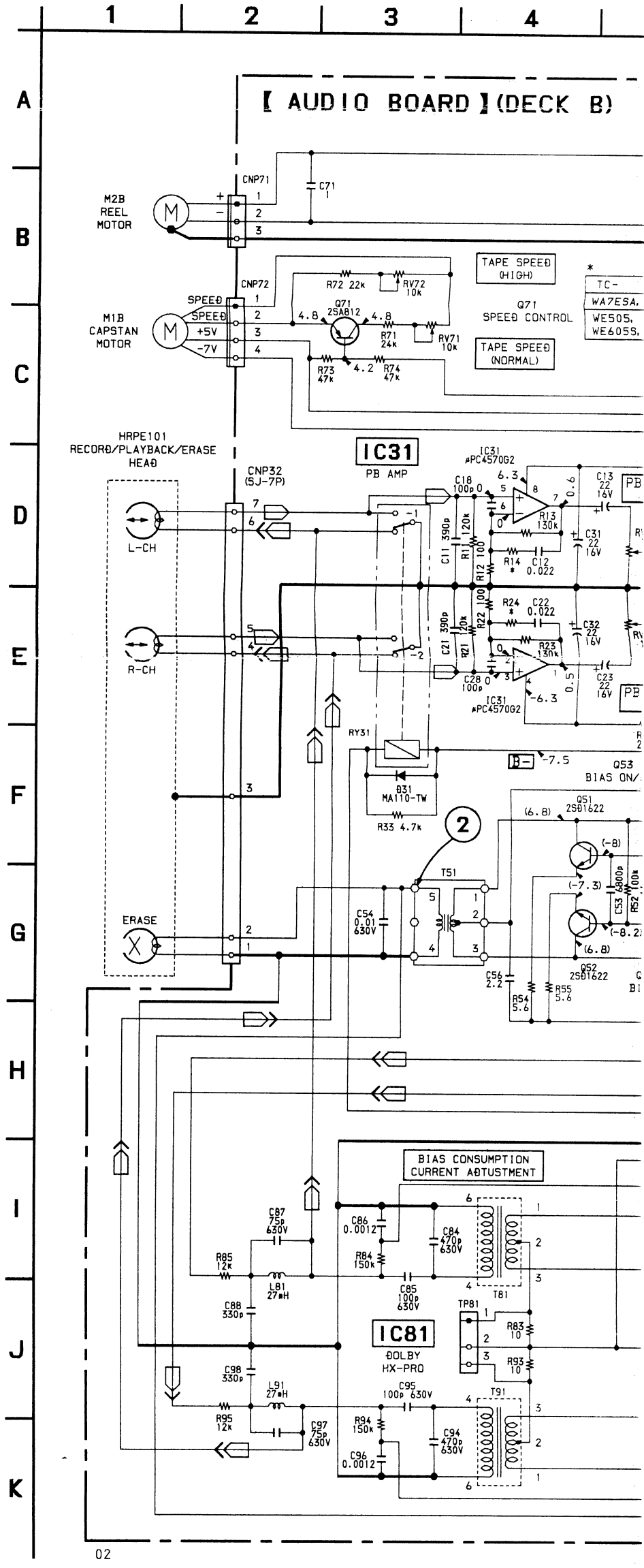
- B+ : B+ Line
- B – : B – Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
  ( ) : REC
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : PB (DECK A)
  : PB (DECK B)
  : REC (DECK B)
- Abbreviation
  CND : Canadian
  G : German
  AUS : Australian
  CH : Chinese
  SP : Singapore
  MY : Malaysia
  PA : Panama

5-4. SCHEMATIC DIAGRAM (PANEL SECTION)



02


6
7
8
9
10
BOARD
CNP803
7P
TO CN803
VOL
+5V
GND
LED (ARL)
LED (SYNC)
SYNC
ARL
C
MAIN BOARD
CN803
(Page 24)
RV901
20k
AUTO REC LEVEL
WA7ESA, WE505, WR550Z
R939
3.9k
R933
2.7k
R934
3.9k
S935
SYNCHRO
ARL
S934
ARL
S933
FADER
WE605S, WE705S
S938
ARL
R902
470
D902
SEL6210S-TH12
SYNCHRO
R901
470
D901
SEL6210S-TH12
AUTO REC LEVEL
CNP802
41P
TO CN802
SIRCS
DIRECTION
PITCH CON
GND
+5V
F2
F1
VFDP
G8
G7
G6
G5
G4
G3
G2
G1
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
KEY4
KEY3
KEY2
KEY1
ARL
SYNC
MPX
A
MAIN BOARD
CN802
(Page 24)
5.2
B+
R904
100
IC901
REMOTE
CONTROL
RECEIVER
IC901
SBX1810-59


1
2
3
4
AUDIO BOARD (DECK B)
A
B
C
D
E
F
G
H
I
J
K
M2B
REEL
MOTOR
CNP71
C71
M1B
CAPSTAN
MOTOR
CNP72
SPEED
+5V
-7V
R72 22k
RV72
10k
Q71
2SA812
R71
24k
RV71
10k
R73
47k
R74
47k
TAPE SPEED
(HIGH)
TAPE SPEED
(NORMAL)
Q71
SPEED CONTROL
TC-
WA7ESA,
WE505,
WE605S,
HRPE101
RECORD/PLAYBACK/ERASE
HEAD
CNP32
(SJ-7P)
IC31
PB AMP
IC31
μPC4570G2
L-CH
R-CH
ERASE
C18
100p
C13
22
16V
C31
22
16V
C11
390p
R11
120k
R12
100
R14
C12
0.022
C22
0.022
C32
22
16V
C21
390p
R21
120k
R22
100
R24
R23
130k
C28
100p
C23
22
16V
-6.3
RY31
B-
-7.5
Q53
BIAS ON/
D31
MA110-TW
R33 4.7k
2
T51
C54
0.01
630V
Q51
2SB1622
(6.8)
(-8)
(-7.3)
(-8.2)
(6.8)
Q52
2SB1622
C56
2.2
R54
5.6
R55
5.6
BIAS CONSUMPTION
CURRENT ADJUSTMENT
C87
75p
630V
C86
0.0012
C84
470p
630V
R85
12k
R84
150k
L81
27mH
C85
100p
630V
T81
C88
330p
TP81
R83
10
R93
10
IC81
DOLBY
HX-PRO
C98
330p
L91
27mH
C95
100p 630V
T91
R95
12k
C97
75p
630V
R94
150k
C94
470p
630V
C96
0.0012
02

Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- B+ : B+ Line
- B − : B − Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
  ( ) : REC
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : PB (DECK A)
  : PB (DECK B)
  : REC (DECK B)

TION)

3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13

D10 BOARD] (DECK B)

【 LEAF SW BOARD 】(DECK B)

【 AUDIO BOAR

IC82 ROTATION DET

IC81 ROTATION DET

IC31 PB AMP

Q71 SPEED CONTROL

Q53 BIAS ON/OFF

Q51, 52 BIAS OSC

IC81 DOLBY HX-PRO

BIAS CONSUMPTION CURRENT ADJUSTMENT

REC BIAS L-CH

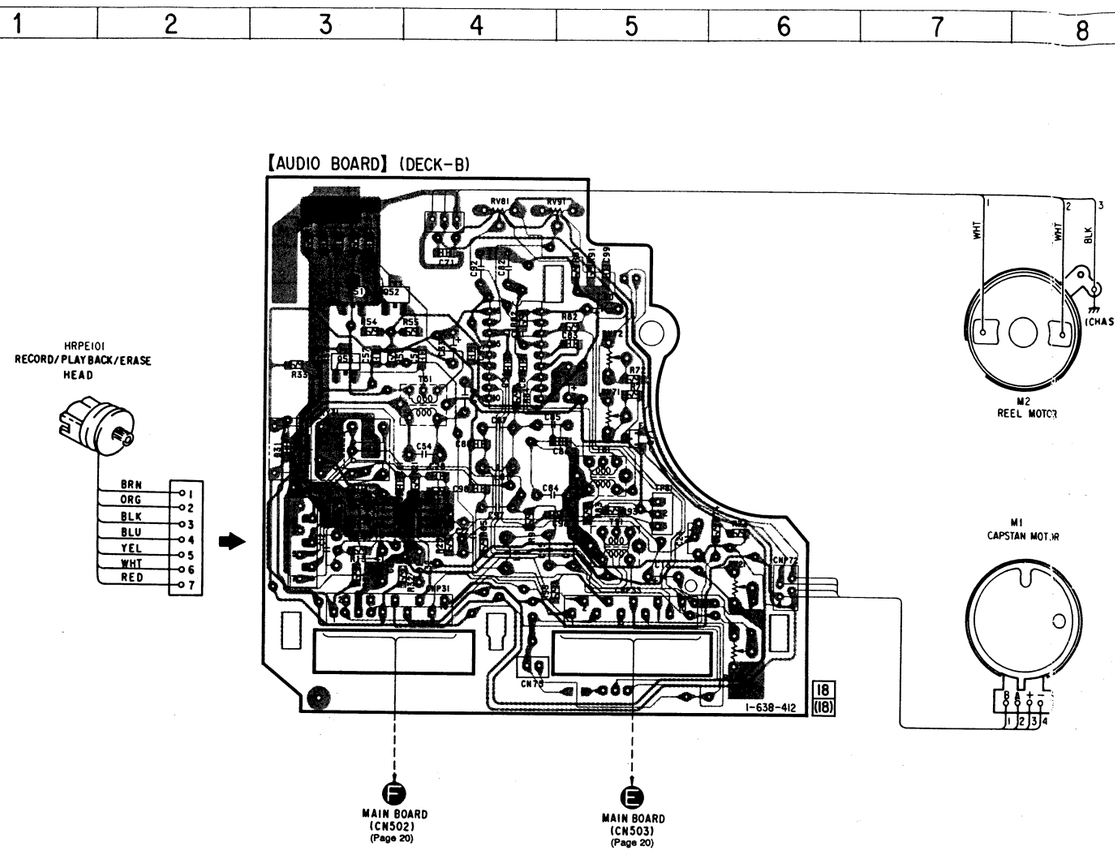
REC BIAS R-CH

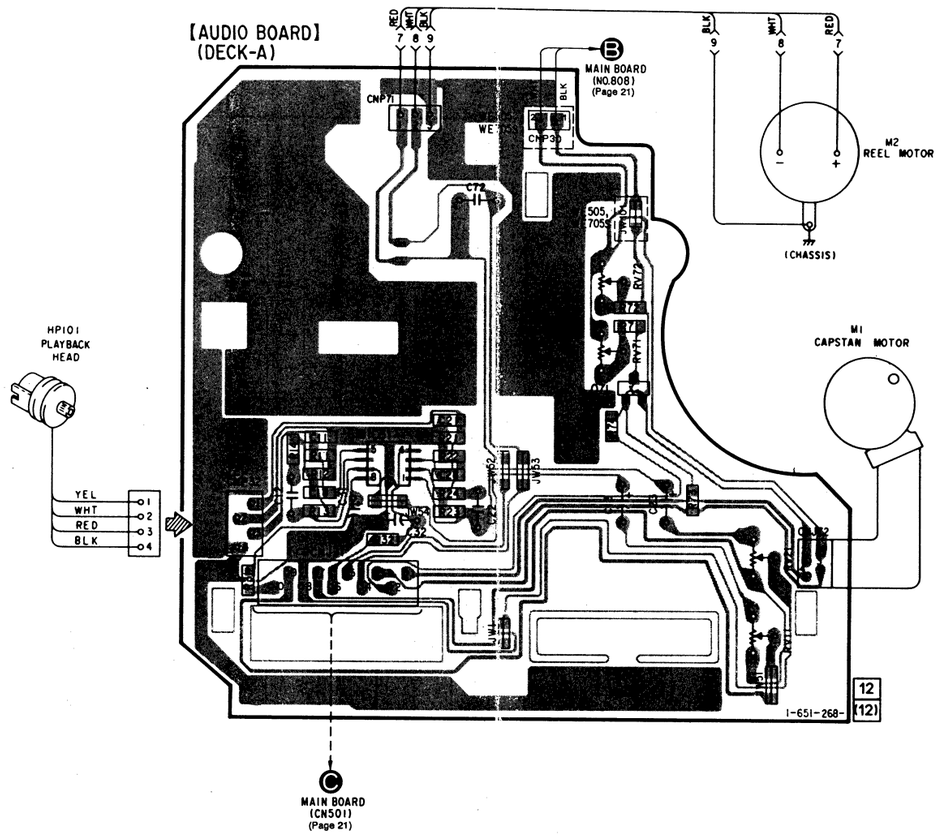
HP101 PLAYBACK HEAD

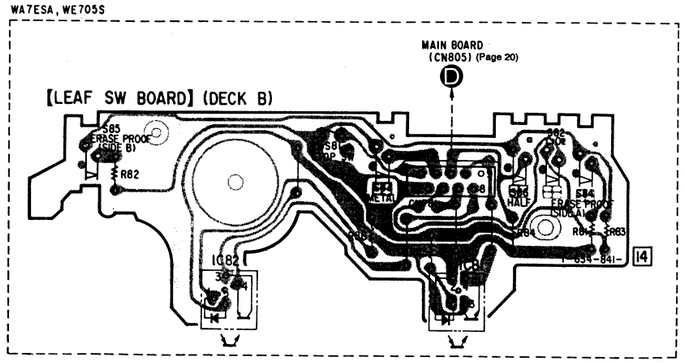
M2A REEL MOTOR

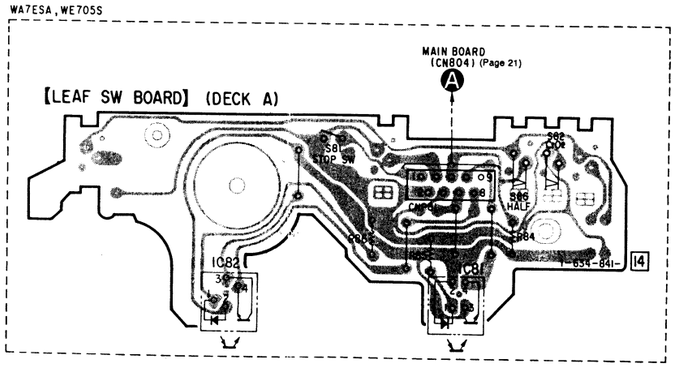
M1A CAPSTAN MOTOR

*	
TC-	R14, 24
WA7ESA, WE705S	6.2K
WE505, WE605S, WR550Z	6.8K

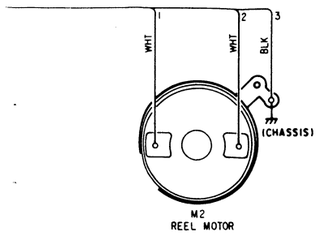

【AUDIO BOARD】 (DECK-B)
HRPE101
RECORD/PLAYBACK/ERASE HEAD
BRN 1
ORG 2
BLK 3
BLU 4
YEL 5
WHT 6
RED 7
WHT
WHT
BLK
(CHASSIS)
M2
REEL MOTOR
M1
CAPSTAN MOTOR
1-638-412
18
(18)
MAIN BOARD
(CN502)
(Page 20)
MAIN BOARD
(CN503)
(Page 20)

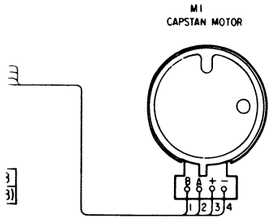

【AUDIO BOARD】
(DECK-A)
RED
WHT
BLK
MAIN BOARD
(NO.808)
(Page 21)
BLK
WHT
RED
M2
REEL MOTOR
(CHASSIS)
HP101
PLAYBACK
HEAD
YEL
WHT
RED
BLK
M1
CAPSTAN MOTOR
1-651-268-
12
(12)
MAIN BOARD
(CN501)
(Page 21)

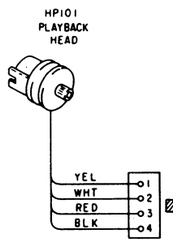

WA7ESA, WE705S
MAIN BOARD
(CN805) (Page 20)
【LEAF SW BOARD】 (DECK B)
S85
ERASE PROOF SIDE B
R82
S84
METAL
S86
HALF
ERASE PROOF SIDE A
R84
R83
IC82
IC81
1-634-841-
14

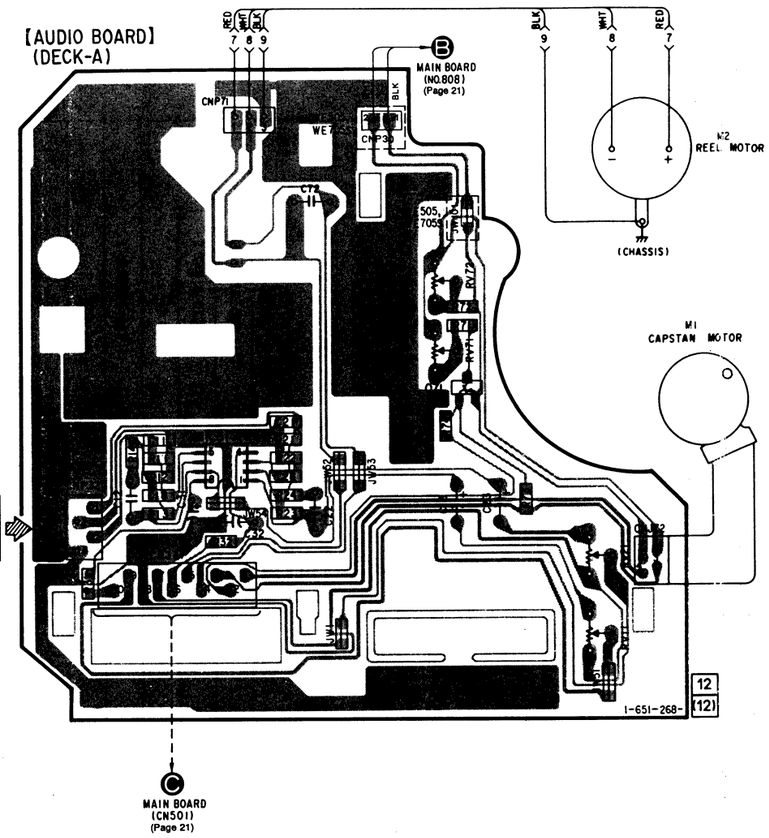

WA7ESA, WE705S
MAIN BOARD
(CN804) (Page 21)
【LEAF SW BOARD】 (DECK A)
S84
TOP
S86
HALF
IC82
IC81
1-634-841-
14

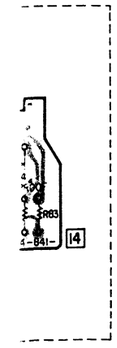
7	8	9	10	11	12	13	14	15	16	17	18	19	20

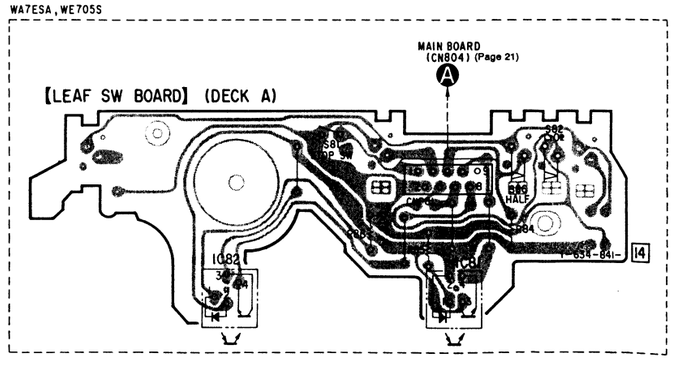


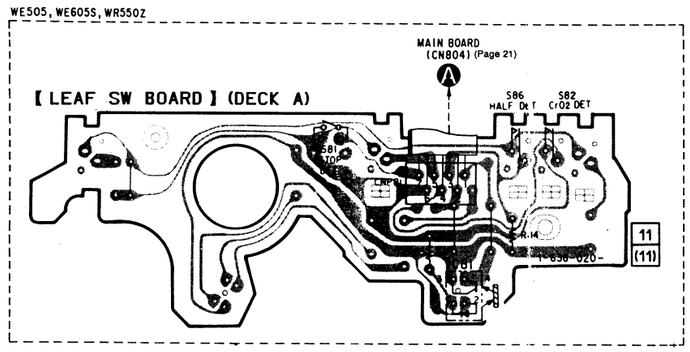


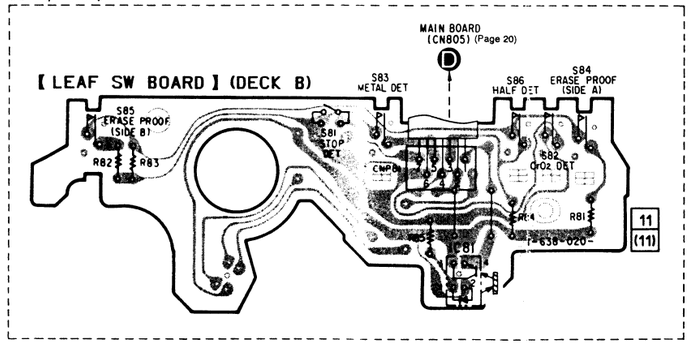












• SEMICONDUCTOR LOCATION

(DECK-A)

Ref. No.	Location
IC31	D - 11
IC81 (LEAF SW)	F - 18
IC81 (LEAF SW)	I - 13
IC82 (LEAF SW)	I - 12
Q71	C - 13

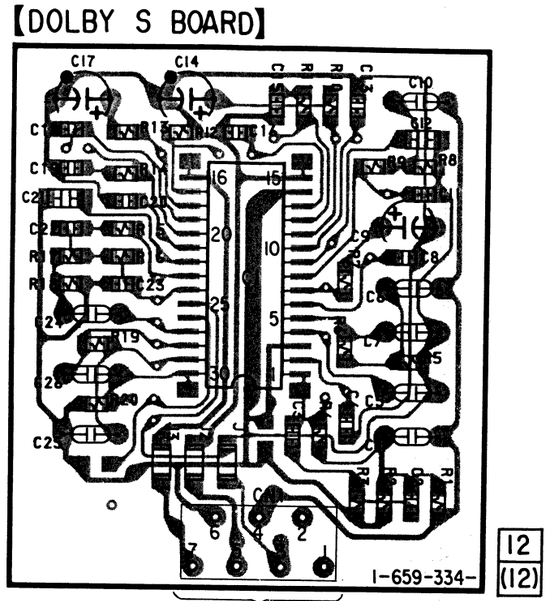
(DECK-B)

Ref. No.	Location
D31	C - 3
IC31	D - 4
IC81 (AUDIO)	B - 4
IC81 (LEAF SW)	I - 5
IC81 (LEAF SW)	I - 18
IC82 (LEAF SW)	I - 4
Q51	B - 3
Q52	B - 3
Q53	C - 3
Q71	C - 5

Note:

- ○— : parts extracted from the component side.
- ● : Through hole.
- ▒▒ : Pattern on the side which is seen.
- ▒▒ : Pattern of the rear side.

5-7. PRINTED WIRING BOARDS (DOLBY SECTION) (EXCEPT WE505)



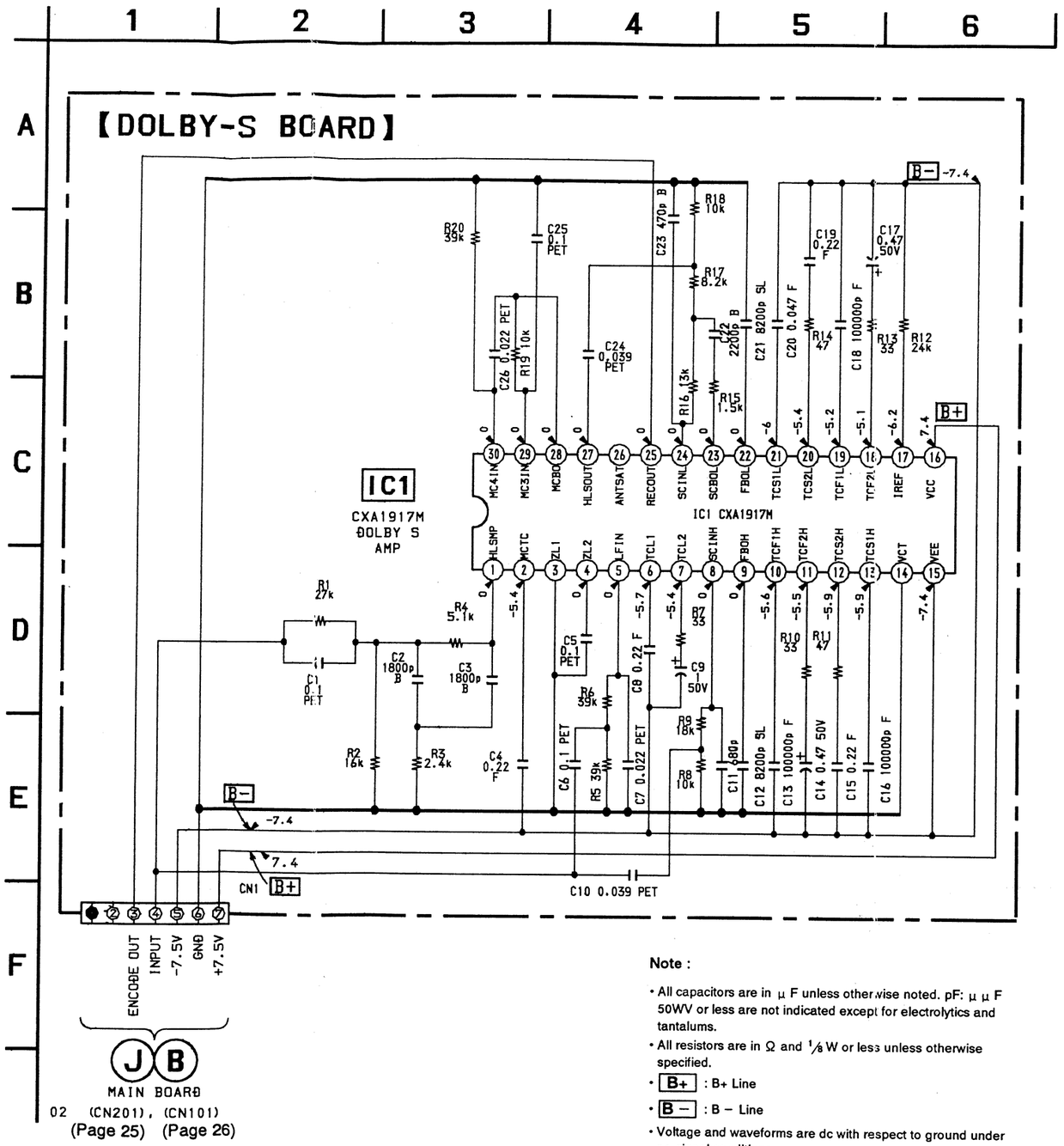
(Page 19) G , H (Page 19)

MAIN BOARD
CN101 , 201

Note:

- O— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.

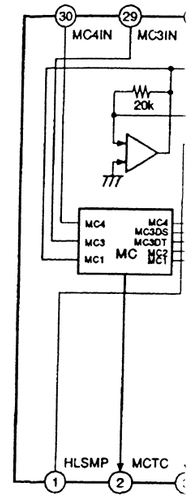
5-8. SCHEMATIC DIAGRAM (DOLBY SECTION) (EXCEPT WE505)



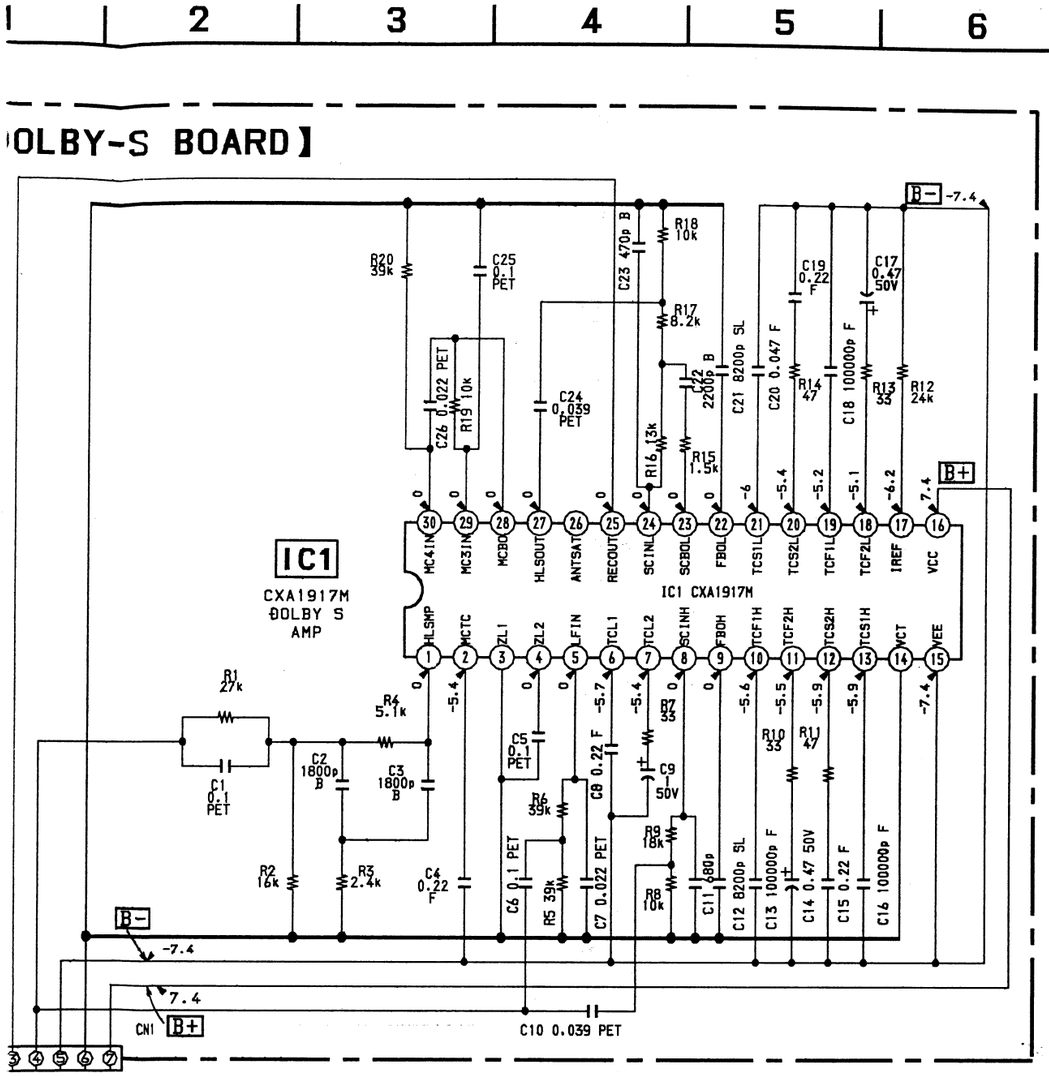
Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/8 W or less unless otherwise specified.
- B+ : B+ Line
- B − : B − Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Voltage variations may be noted due to normal production tolerances.

● IC BLOCK DIAGR
IC1 CXA1917M-T6



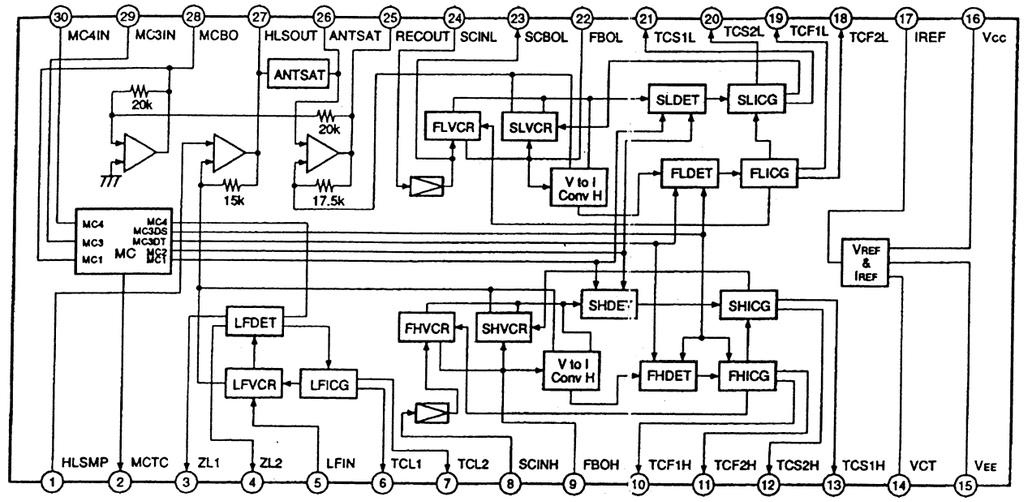
TIC DIAGRAM (DOLBY SECTION)
WE505)



Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/8 W or less unless otherwise specified.
- B+ : B+ Line
- B − : B − Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Voltage variations may be noted due to normal production tolerances.

● IC BLOCK DIAGRAM
IC1 CXA1917M-T6



SECTION 6
EXPLODED VIEWS

NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

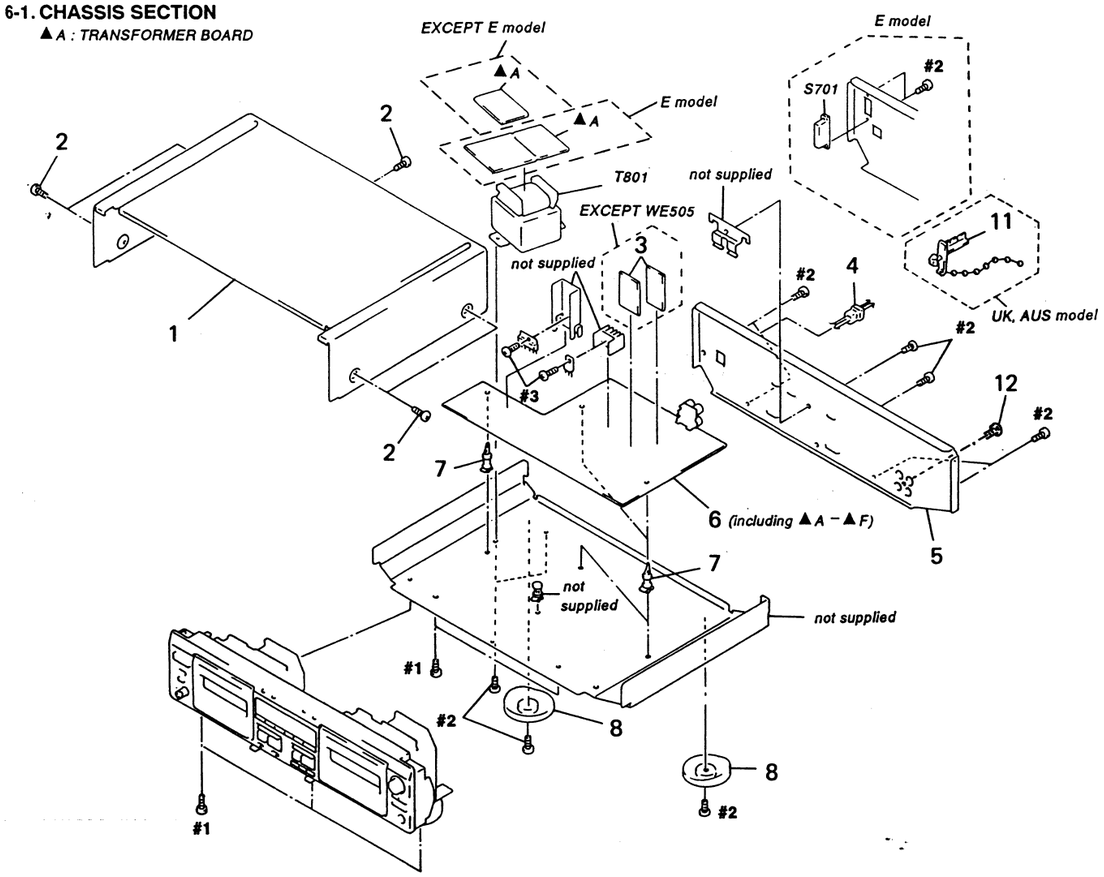
CND	: Canadian	G	: German
AUS	: Australian	MY	: Malaysia
SP	: Singapore	CH	: Chinese
PA	: Panama		

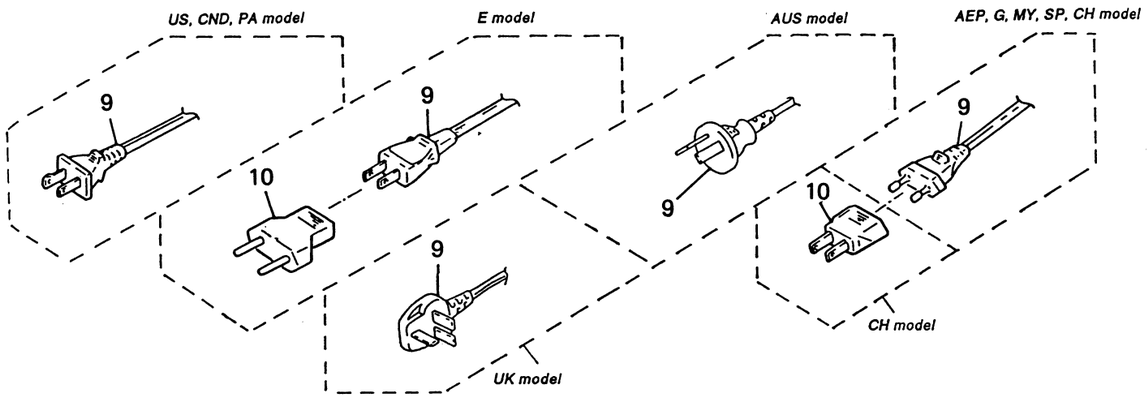
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CHASSIS SECTION

▲A : TRANSFORMER BOARD

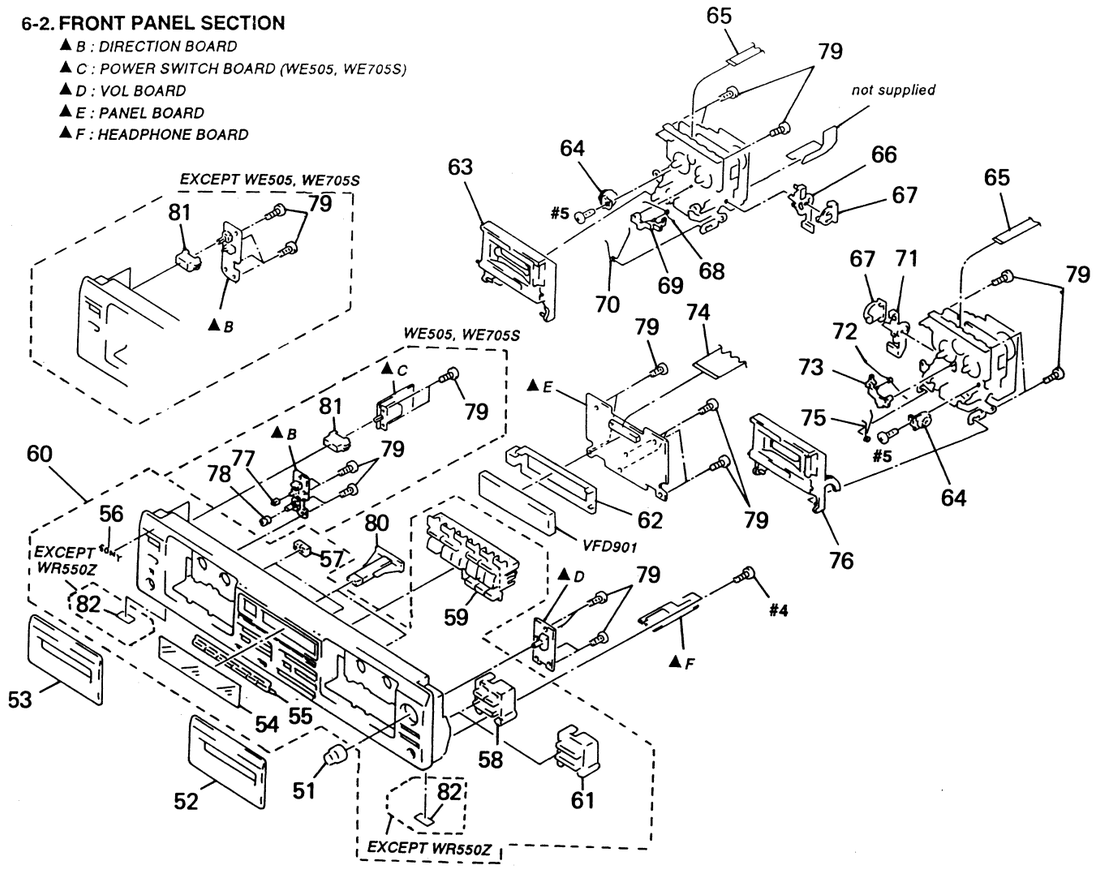




Ref. No.	Part No.	Description	Remark
* 1	3-931-432-01	CASE (410726) (WA7ESA,WE605S,WR550Z)	
* 1	4-943-088-41	CASE (WE505,WE705S)	
2	3-363-099-01	SCREW (CASE 3 TP2)(WE505,WE705S)	
2	3-704-366-01	SCREW (CASE) (M3X8) (WA7ESA,WE605S, WR550Z)	
* 3	A-2007-481-A	DOLBY-S BOARD, COMPLETE (EXCEPT WE505)	
* 4	3-703-244-11	BUSHING (2104), CORD (AEP,UK,G,AUS, MY,SP, CH,)	
4	3-703-571-11	BUSHING (S) (4516), CORD (US,CND,E,PA)	
* 5	3-920-372-21	PANEL, BACK (WE505:UK)	
* 5	3-931-244-01	PANEL, BACK (WE605S:US,PA)	
* 5	3-931-244-11	PANEL, BACK (WE605S:CND)	
* 5	3-931-244-21	PANEL, BACK (WE605S:E)	
* 5	3-931-244-31	PANEL, BACK (WE605S:AUS)	
* 5	3-931-244-41	PANEL, BACK (WE605S:MY,SP,CH)	
* 5	3-931-245-01	PANEL, BACK (WE505:AEP,G)	
* 5	3-931-245-21	PANEL, BACK (WR550Z)	
* 5	3-931-246-01	PANEL, BACK (WE705S)	
* 5	3-932-543-01	PANEL, BACK (WA7ESA:US)	
* 5	3-932-543-11	PANEL, BACK (WA7ESA:CND)	
* 6	A-2007-491-A	MAIN BOARD, COMPLETE (WE605S:US,CND, PA)	
* 6	A-2007-492-A	MAIN BOARD, COMPLETE (WE605S:E)	
* 6	A-2007-493-A	MAIN BOARD, COMPLETE (WE605S:AUS)	
* 6	A-2007-494-A	MAIN BOARD, COMPLETE (WE505)	
* 6	A-2007-495-A	MAIN BOARD, COMPLETE (WE705S)	
* 6	A-2007-513-A	MAIN BOARD, COMPLETE (WA7ESA)	
* 6	A-2007-547-A	MAIN BOARD, COMPLETE (WR550Z)	
* 6	A-2007-576-A	MAIN BOARD, COMPLETE (WE605S:MY,SP,CH)	
* 7	3-346-265-31	HOLDER, PC BOARD	
8	X-3371-435-1	FOOT ASSY (F50150S) (AEP,UK,G,E,AUS,MY,SP, CH)	
8	X-3371-436-1	FOOT ASSY (F50145S) (US,CND,PA)	
⚠ 9	1-551-188-99	CORD, POWER (E)	
⚠ 9	1-558-945-21	CORD, POWER (POLAR.SPT-1) (US,CND,PA)	
⚠ 9	1-575-651-21	CORD, POWER (AEP,G,MY,SP,CH)	
⚠ 9	1-696-586-11	CORD, POWER (UK)	
⚠ 9	1-696-845-11	CORD, POWER (AUS)	
⚠ 10	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
⚠ 10	1-569-008-21	ADAPTER, CONVERSION 2P (CH)	
11	4-956-370-12	BAND, PLUG FIXED (UK,AUS)	
12	3-704-515-01	SCREW (BV,RING) (WE505,WE705S)	
⚠ S701	1-692-155-11	SELECTOR, POWER•VOLTAGE (VOLTAGE SELECTOR) (E)	
⚠ T801	1-427-782-11	TRANSFORMER, POWER (US,CND,PA)	
⚠ T801	1-427-783-11	TRANSFORMER, POWER (AEP,UK,G,AUS,MY,SP, CH)	
⚠ T801	1-427-784-11	TRANSFORMER, POWER (E)	

6-2. FRONT PANEL SECTION

▲B : DIRECTION BOARD
▲C : POWER SWITCH BOARD (WE505, WE705S)
▲D : VOL BOARD
▲E : PANEL BOARD
▲F : HEADPHONE BOARD

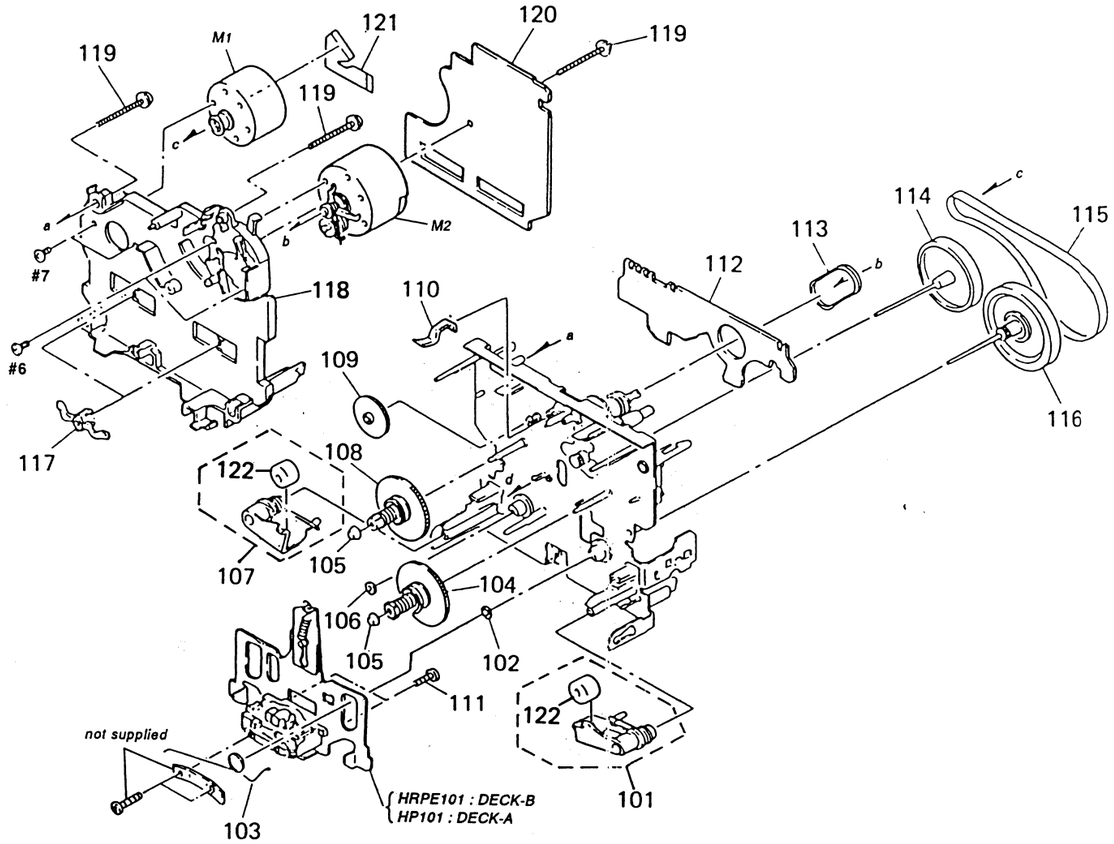


Ref. No.	Part No.	Description	Remark
51	3-909-661-21	KNOB (REC) (WE505,WE705S)	
51	3-931-430-11	KNOB (REC) (WA7ESA,WE605S,WR550Z)	
52	X-3371-367-1	LID (HF) ASSY (B), CASSETTE	(EXCEPT WA7ESA)
52	X-3371-572-1	LID (ES) ASSY (B), CASSETTE (WA7ESA)	
53	X-3371-366-1	LID (HF) ASSY (A), CASSETTE	(EXCEPT WA7ESA)
53	X-3371-571-1	LID (ES) ASSY (A), CASSETTE (WA7ESA)	
54	3-931-248-01	WINDOW (M) (EXCEPT WA7ESA:CND)	
54	3-931-248-31	WINDOW (M) (WA7ESA:CND)	
55	3-931-237-01	BUTTON (RMS-6)	
56	4-963-404-21	EMBLEM (5-A), SONY	
57	3-931-243-01	BUTTON (COUNTER)	
58	X-3371-370-1	BUTTON (SYNCHRO) ASSY (WE705S,WE605S)	
59	3-931-239-01	BUTTON (SR)	
60	X-3371-355-1	PANEL (HF) ASSY, FRONT (WE605S:US,CND,PA)	
60	X-3371-356-1	PANEL (HF) ASSY, FRONT (WE605S:E,AUS,MY,SP,CH)	
60	X-3371-357-1	PANEL ASSY, FRONT (WR550Z)	
60	X-3371-358-1	PANEL ASSY, FRONT (WE505)	
60	X-3371-361-1	PANEL ASSY, FRONT (WE705S)	
60	X-3371-567-1	PANEL (ES) ASSY, FRONT (WA7ESA:US)	
60	X-3371-568-1	PANEL (ES) ASSY, FRONT (WA7ESA:CND)	
61	3-931-242-01	BUTTON (ARL) (WA7ESA,WE505,WR550Z)	
* 62	3-377-337-11	HOLDER (FL)	
63	X-4945-947-1	HOLDER (L) ASSY, CASSETTE	
64	3-354-963-01	DAMPER	
65	1-769-882-11	WIRE (FLAT TYPE) (7 CORE) (WE505,WE605S,WR550Z)	
65	1-769-912-11	WIRE (FLAT TYPE) (9 CORE) (WA7ESA,WE705S)	
* 66	3-354-953-01	LEVER (LOCK LEVER L)	
67	3-354-957-01	JOINT (LOCK LEVER)	
68	3-354-961-01	SPRING (EJ SAFTY SPRING L)	
69	3-354-955-01	LEVER (EJ SAFTY LEVER L)	
70	4-959-231-11	SPRING (L), TORSION	
* 71	3-354-954-01	LEVER (LOCK LEVER R)	
72	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
73	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
74	1-769-598-11	WIRE (FLAT TYPE) (41 CORE)	
75	4-959-232-11	SPRING (R), TORSION	
76	X-4945-946-1	HOLDER (R) ASSY, CASSETTE	
77	3-380-952-21	BUTTON (5X5)	
78	3-931-378-01	KNOB (F10) (WE505,WE705S)	
79	4-951-620-01	SCREW (2.6X8), +BVTP	
80	3-377-328-11	BUTTON (EJECT) (WE505,WE705S)	
80	3-931-427-11	BUTTON (EJ) (WA7ESA,WE605S,WR550Z)	
81	3-354-932-01	BUTTON (POWER) (WE505,WE705S)	
81	3-931-429-01	BUTTON (POWER) (WE605S,WR550Z)	
81	4-922-921-31	BUTTON (POWER) (WA7ESA)	
82	4-977-358-01	CUSHION (8X12.5) (EXCEPT WR550Z)	
VFD901	1-517-263-11	INDICATOR TUBE, FLUORESCENT	

6-3. MECHANISM SECTION 1

DECK-A
- TC-WE605S/WR550Z : TCM-190RA12CL
- TC-WE505 : TCM-190RA14CL
- TC-WA7ESA : TCM-190RA17CL
- TC-WE705S : TCM-190RA18C

DECK-B
- TC-WA7ESA/WE705S : TCM-190RB11C
- TC-WE505/WE605S/WR550Z : TCM-190RB12CL

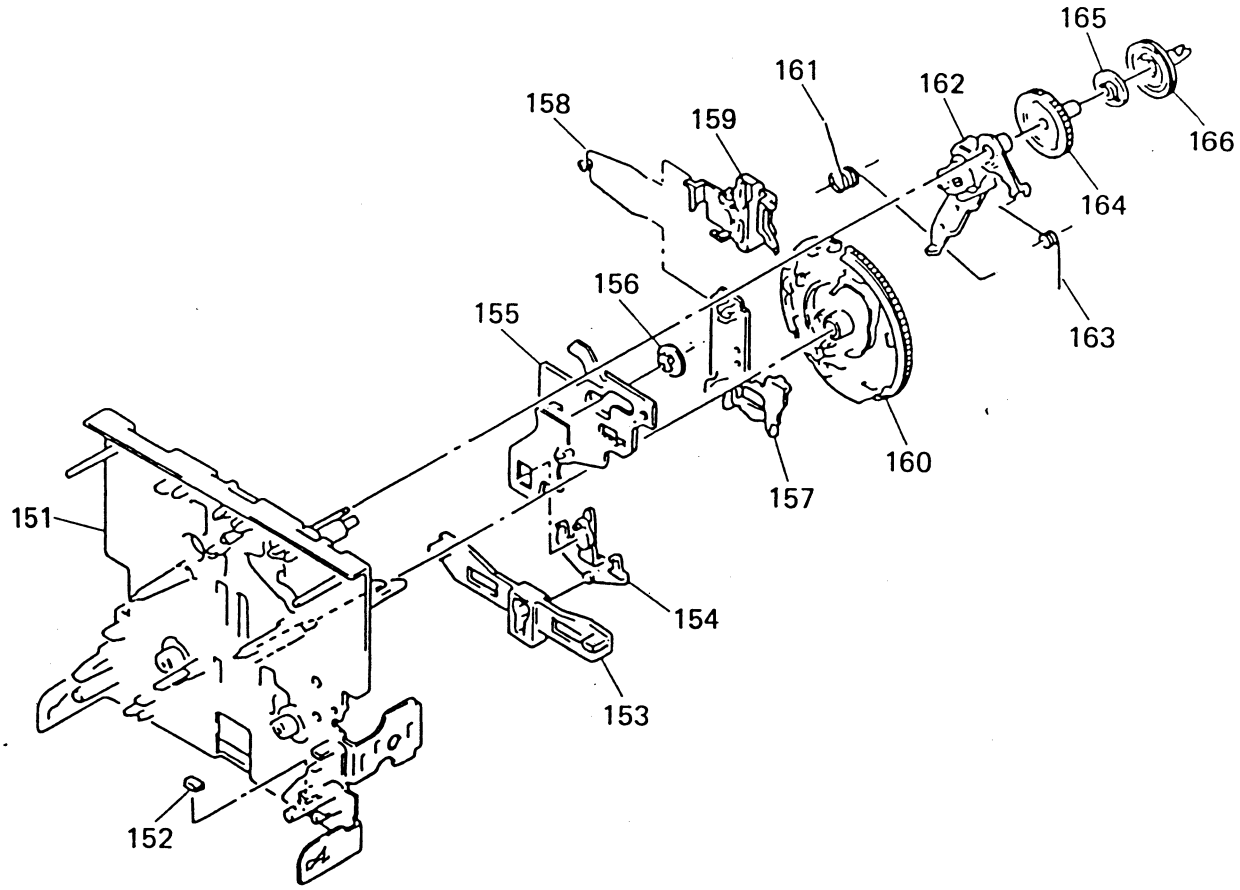


Ref. No.	Part No.	Description	Remark
101	X-3366-047-1	LEVER (PINCH F) ASSY	
102	3-356-713-01	WASHER	
103	3-907-362-01	SPRING, TORSION	
104	X-3366-970-1	TABLE ASSY, REEL (WE505,WE605S,WR550Z)	
104	X-3366-971-1	TABLE ASSY, REEL (WA7ESA,WE705S)	
105	3-362-308-01	CAP (REEL)	
106	3-356-714-01	WASHER	
107	X-3366-048-1	LEVER (PINCH R) ASSY	
108	X-3366-971-1	TABLE ASSY (B), REEL	
109	3-359-424-01	GEAR (REV GEAR)	
110	3-359-430-01	SPRING (CASSETTE RETAINER),LEAF	
111	3-388-848-01	SCREW (P2X6) (B TIGHT)	
* 112	1-634-841-14	LEAF SW BOARD (DECK A) (WA7ESA,WE705S)	
* 112	1-638-020-11	LEAF SW BOARD (DECK A) (WE505,WE605S, WR550Z)	
* 112	1-634-841-14	LEAF SW BOARD (DECK B) (WA7ESA,WE705S)	
* 112	1-638-020-11	LEAF SW BOARD (DECK B) (WE505,WE605S, WR550Z)	
113	3-359-466-01	BELT (FR), SQUARE	
114	X-3367-630-1	FLYWHEEL (REV) ASSY	
115	3-359-417-01	BELT (FLAT), CAPSTAN	
116	X-3367-629-1	FLYWHEEL (FWD) ASSY	
117	3-575-321-00	RETAINER, THRUST, CAPSTAN	
118	3-359-436-11	BASE (THRUST RETAINER),FITTING	
119	3-359-414-01	SCREW (+PTPWH 2X23)	
* 120	A-2007-040-A	AUDIO BOARD, COMPLETE (DECK B)	
* 120	A-2007-266-A	AUDIO BOARD, COMPLETE (DECK A) (WE605S, WR550Z)	
* 120	A-2007-339-A	AUDIO BOARD, COMPLETE (DECK A) (WE505)	
* 120	A-2007-479-A	AUDIO BOARD, COMPLETE (DECK A) (WA7ESA)	
* 120	A-2007-480-A	AUDIO BOARD, COMPLETE (DECK A) (WE705S)	
121	1-638-983-11	MOTOR FLEXIBLE BOARD	
122	3-355-808-02	PINCH ROLLER	
HP101	A-2004-526-A	DECK ASSY, HEAD (PLAYBACK) (WE505, WE605S,WR550Z)	
HP101	A-2004-548-A	DECK ASSY, HEAD (PLAYBACK) (WA7ESA, WE705S)	
HRPE101	A-2004-527-A	DECK ASSY, HEAD (RECORD / PLAYBACK / ERASE)	
M1	X-3365-377-2	MOTOR ASSY (CAPSTAN)	
M2	X-3365-501-2	MOTOR ASSY (REEL)	

6-4. MECHANISM SECTION 2

DECK-A
- TC-WE605S/WR550Z : TCM-190RA12CL
- TC-WE505 : TCM-190RA14CL
- TC-WA7ESA : TCM-190RA17CL
- TC-WE705S : TCM-190RA18C

DECK-B
- TC-WA7ESA/WE705S : TCM-190RB11C
- TC-WE505/WE605S/WR550Z : TCM-190RB12CL



Ref. No.	Part No.	Description	Remark
151	X-3359-415-1	CHASSIS ASSY MECHANICAL	
152	3-359-469-01	SPACER	
153	3-359-425-01	SLIDER (REVERSE SLIDER)	
154	3-359-426-01	LEVER (REVERSE LEVER)	
* 155	3-359-415-01	SLIDER (TRIGGER SLIDER)	
156	3-359-448-01	GEAR (TRIGGER)	
157	3-359-427-01	SLIDER (LEVERSE SLIDER)	
158	3-359-454-01	SPRING, TORSION	
159	3-359-429-01	SLIDER (BRAKE PLATE)	
* 160	3-936-483-01	GEAR (CAM GEAR)	
161	3-359-456-01	SPRING(TRIGGER SPRING),TORSION	
162	X-3366-569-1	ARM ASSY, FR	
163	3-924-185-11	SPRING (FR ARM), TORSION	
164	3-359-419-11	GEAR (FR GEAR)	
165	3-359-421-01	CLUTCH (REEL DISK)	
166	3-359-418-01	PULLEY (FR PULLEY)	

SECTION 7
ELECTRICAL PARTS LIST

AUDIO (DECK A)

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE :Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation
  CND : Canadian
  AUS : Australian
  SP : Singapore
  PA : Panama
  G : German
  MY : Malaysia
  CH : Chinese

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description				Remark
*	A-2007-266-A	AUDIO BOARD, COMPLETE (DECK A)				(WE605S, WR550Z)
*	A-2007-339-A	AUDIO BOARD, COMPLETE (DECK A)				(WE505)
*	A-2007-479-A	AUDIO BOARD, COMPLETE (DECK A)				(WA7ESA)
*	A-2007-480-A	AUDIO BOARD, COMPLETE (DECK A)				(WE705S)
		**********				
		< CAPACITOR >				
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	
C12	1-136-157-00	FILM	0.022uF	5%	50V	
C13	1-124-234-00	ELECT	22uF	20%	16V	
C18	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	
C22	1-136-157-00	FILM	0.022uF	5%	50V	
C23	1-124-234-00	ELECT	22uF	20%	16V	
C28	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C31	1-124-234-00	ELECT	22uF	20%	16V	
C32	1-124-234-00	ELECT	22uF	20%	16V	
C72	1-109-889-11	ELECT	1uF	20%	50V	
		< CONNECTOR >				
* CNJ31	1-580-782-11	CONNECTOR, BOARD TO BOARD				
CNJ72	1-764-902-11	CONNECTOR, FFC/FPC 4P				
* CNP30	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P				(WE505, WE705S)
* CNP32	1-580-772-11	PIN, CONNECTOR (PC BOARD) 4P				
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P				
		< IC >				
IC31	8-759-106-02	IC uPC4570G2				
		< JUMPER RESISTOR >				
JW1	1-216-295-00	METAL CHIP	0	5%	1/10W	
JW51	1-216-296-00	METAL CHIP	0	5%	1/8W	
JW52	1-216-296-00	METAL CHIP	0	5%	1/8W	
JW53	1-216-296-00	METAL CHIP	0	5%	1/8W	
JW54	1-216-296-00	METAL CHIP	0	5%	1/8W	
JW101	1-216-295-00	METAL CHIP	0	5%	1/10W	(WE505,WE705S)
		< TRANSISTOR >				
Q71	8-729-216-22	TRANSISTOR	2SA1162-G			
		< RESISTOR >				
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W	
R12	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W	
R14	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	(WA7ESA,WE705S)
R14	1-216-068-00	METAL CHIP	6.2K	5%	1/10W	(WE505,WE605S,WR550Z)
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W	
R22	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W	
R24	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	(WA7ESA,WE705S)
R24	1-216-068-00	METAL CHIP	6.2K	5%	1/10W	(WE505,WE605S,WR550Z)
R31	1-216-033-00	METAL CHIP	220	5%	1/10W	
R32	1-216-033-00	METAL CHIP	220	5%	1/10W	
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W	
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R73	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R74	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
		< VARIABLE RESISTOR >				
RV11	1-241-761-11	RES, ADJ, CARBON 1K				(PB LEVEL L)
RV21	1-241-761-11	RES, ADJ, CARBON 1K				(PB LEVEL R)
RV71	1-241-630-11	RES, ADJ, CARBON 10K				(TAPE SPEED(NORMAL))
RV72	1-241-630-11	RES, ADJ, CARBON 10K				(TAPE SPEED(HIGH))
		**********				

AUDIO (DECK B)

Ref. No.	Part No.	Description				Remark
*	A-2007-040-A	AUDIO BOARD, COMPLETE (DECK B)				
		**********				
		< CAPACITOR >				
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	
C12	1-136-157-00	FILM	0.022uF	5%	50V	
C13	1-124-234-00	ELECT	22uF	20%	16V	
C18	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	
C22	1-136-157-00	FILM	0.022uF	5%	50V	
C23	1-124-234-00	ELECT	22uF	20%	16V	
C28	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C31	1-124-234-00	ELECT	22uF	20%	16V	
C32	1-124-234-00	ELECT	22uF	20%	16V	
C33	1-124-234-00	ELECT	22uF	20%	16V	
C51	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	
C52	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	
C53	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	
C54	1-136-601-11	FILM	0.01uF	5%	630V	
C56	1-164-505-11	CERAMIC CHIP	2.2uF		16V	
C57	1-164-346-11	CERAMIC CHIP	1uF		16V	
C71	1-164-346-11	CERAMIC CHIP	1uF		16V	
C80	1-124-234-00	ELECT	22uF	20%	16V	
C81	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C82	1-136-157-00	FILM	0.022uF	5%	50V	
C83	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C84	1-136-478-11	FILM	470PF	5%	630V	
C85	1-136-433-11	FILM	100PF	5%	630V	
C86	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V	
C87	1-136-273-91	FILM	75PF	5%	630V	
C88	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C89	1-124-234-00	ELECT	22uF	20%	16V	
C90	1-107-584-11	CERAMIC	4PF	0.25PF	500V	
C91	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C92	1-136-157-00	FILM	0.022uF	5%	50V	
C93	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C94	1-136-478-11	FILM	470PF	5%	630V	
C95	1-136-433-11	FILM	100PF	5%	630V	
C96	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V	
C97	1-136-273-91	FILM	75PF	5%	630V	
C98	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C99	1-164-005-11	CERAMIC CHIP	0.47uF		25V	
		< CONNECTOR >				
* CNP31	1-580-782-11	CONNECTOR, BOARD TO BOARD				
* CNP32	1-580-781-11	PIN, CONNECTOR (PC BOARD) 7P				
* CNP33	1-580-782-11	CONNECTOR, BOARD TO BOARD				
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P				
CNP72	1-764-902-11	CONNECTOR, FFC/FPC 4P				
* CNP75	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P				

Ref. No.	Part No.	Description				Remark
		< DIODE >				
D31	8-719-404-46	DIODE	MA110			
		< IC >				
IC31	8-759-106-02	IC	uPC4570G2			
IC81	8-759-106-56	IC	uPC1297CA			
		< COIL >				
L81	1-410-780-11	INDUCTOR	27mH			
L91	1-410-780-11	INDUCTOR	27mH			
		< TRANSISTOR >				
Q51	8-729-822-05	TRANSISTOR	2SD1622-ST-TD			
Q52	8-729-822-05	TRANSISTOR	2SD1622-ST-TD			
Q53	8-729-822-05	TRANSISTOR	2SD1622-ST-TD			
Q71	8-729-216-22	TRANSISTOR	2SA1162-G			
		< RESISTOR >				
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W	
R12	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W	
R14	1-216-068-00	METAL CHIP	6.2K	5%	1/10W	
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W	
R22	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W	
R24	1-216-068-00	METAL CHIP	6.2K	5%	1/10W	
R31	1-216-033-00	METAL CHIP	220	5%	1/10W	
R32	1-216-033-00	METAL CHIP	220	5%	1/10W	
R33	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R51	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R52	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R53	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R54	1-216-309-00	METAL CHIP	5.6	5%	1/10W	
R55	1-216-309-00	METAL CHIP	5.6	5%	1/10W	
R57	1-216-298-00	METAL CHIP	2.2	5%	1/10W	
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W	
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R73	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R74	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R81	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R82	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R83	1-216-001-00	METAL CHIP	10	5%	1/10W	
R84	1-216-101-00	METAL CHIP	150K	5%	1/10W	
R85	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R91	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R92	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R93	1-216-001-00	METAL CHIP	10	5%	1/10W	
R94	1-216-101-00	METAL CHIP	150K	5%	1/10W	
R95	1-216-075-00	METAL CHIP	12K	5%	1/10W	

Ref. No.	Part No.	Description		Remark
* CN807	1-568-954-11	PIN, CONNECTOR 5P		
		< CONNECTOR >		
CNP802	1-770-247-11	SOCKET, CONNECTOR 41P		
		< DIODE >		
D101	8-719-933-33	DIODE	HZS6A1L	
D201	8-719-933-33	DIODE	HZS6A1L	
D521	8-719-987-63	DIODE	1N4148M	
D522	8-719-987-63	DIODE	1N4148M	
D601	8-719-987-63	DIODE	1N4148M	(WA7ESA,WE505,WE705S)
D602	8-719-987-63	DIODE	1N4148M	(WA7ESA,WE505,WE705S)
D701	8-719-024-99	DIODE	11ES2-NTA2B	
D702	8-719-024-99	DIODE	11ES2-NTA2B	
D703	8-719-024-99	DIODE	11ES2-NTA2B	
D704	8-719-024-99	DIODE	11ES2-NTA2B	
D705	8-719-987-63	DIODE	1N4148M	
D706	8-719-987-63	DIODE	1N4148M	
D707	8-719-024-99	DIODE	11ES2-NTA2B	
D708	8-719-987-63	DIODE	1N4148M	
D709	8-719-933-33	DIODE	HZS6A1L	
D710	8-719-933-33	DIODE	HZS6A1L	
D711	8-719-933-33	DIODE	HZS6A1L	
D712	8-719-933-38	DIODE	HZS6B3L	
D713	8-719-987-63	DIODE	1N4148M	
D714	8-719-987-63	DIODE	1N4148M	
D715	8-719-987-63	DIODE	1N4148M	
D716	8-719-000-78	DIODE	UZL-7L2	
D801	8-719-987-63	DIODE	1N4148M	
D802	8-719-987-63	DIODE	1N4148M	
D803	8-719-987-63	DIODE	1N4148M	
D804	8-719-987-63	DIODE	1N4148M	
D805	8-719-987-63	DIODE	1N4148M	(WE605S,WE705S)
D901	8-719-313-43	LED	SEL6210S-TH10	(AUTO REC LEVEL)
D902	8-719-313-43	LED	SEL6210S-TH10	(SYNCHRO) (WE605S,WE705S)
		< IC >		
IC501	8-752-075-27	IC	CXA1878Q	
IC502	8-759-634-51	IC	M5218AP	
IC503	8-759-634-51	IC	M5218AP	
IC601	8-759-822-38	IC	LA6510	
IC701	8-759-634-51	IC	M5218AP	
IC801	8-752-871-45	IC	CXP82224-043Q	
IC802	8-759-165-82	IC	PST600E-T	
IC802	8-759-520-90	IC	PST572E	
IC804	8-759-916-14	IC	SN74HC04AN	
IC805	8-759-000-48	IC	MC14052BCP	
IC901	8-741-810-59	IC	SBX1810-59	
		< JACK >		
J501	1-770-614-11	JACK, PIN 4P (LINE IN/OUT)		
J502	1-568-519-41	JACK, LARGE TYPE (PHONES)		
* J801	1-764-188-11	JACK (SMALL TYPE) (DIA. 3.5) (CONTROL A)		(WE605S,WE705S)
* J802	1-764-188-11	JACK (SMALL TYPE) (DIA. 3.5) (CONTROL A)		(WE605S,WE705S)
		< FILTER >		
LPF101	1-233-271-11	FILTER, LOW PASS		
LPF201	1-233-271-11	FILTER, LOW PASS		
		< TRANSISTOR >		
Q101	8-729-900-74	TRANSISTOR	DTC143TS	
Q102	8-729-922-37	TRANSISTOR	2SD2144S	
Q201	8-729-900-74	TRANSISTOR	DTC143TS	
Q202	8-729-922-37	TRANSISTOR	2SD2144S	
Q501	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q502	8-729-620-05	TRANSISTOR	2SC2603-EF	
Q503	8-729-620-05	TRANSISTOR	2SC2603-EF	
Q601	8-729-900-80	TRANSISTOR	DTC114ES	
Q602	8-729-801-93	TRANSISTOR	2SD1387	
Q603	8-729-801-93	TRANSISTOR	2SD1387	
Q604	8-729-900-80	TRANSISTOR	DTC114ES	(WE505,WE705S)
Q605	8-729-119-76	TRANSISTOR	2SA1175-HFE	(WE505, WE705S)
Q606	8-729-900-80	TRANSISTOR	DTC114ES	
Q701	8-729-141-83	TRANSISTOR	2SB1094-LK	
Q702	8-729-209-15	TRANSISTOR	2SD2012	
Q703	8-729-141-83	TRANSISTOR	2SB1094-LK	
Q704	8-729-620-05	TRANSISTOR	2SC2603-EF	
Q705	8-729-900-80	TRANSISTOR	DTC114ES	(WA7ESA,WE605S, WR550Z)
Q706	8-729-900-80	TRANSISTOR	DTC114ES	(WA7ESA,WE605S, WR550Z)
Q707	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q708	8-729-140-04	TRANSISTOR	2SB1116A-L	
Q709	8-729-224-62	TRANSISTOR	2SK246-GR	(WA7ESA)
Q801	8-729-900-89	TRANSISTOR	DTC144ES	
Q802	8-729-900-74	TRANSISTOR	DTC143TS	(WA7ESA,WE605S, WR550Z)
Q803	8-729-620-05	TRANSISTOR	2SC2603-EF	(WE605S, WE705S)
Q804	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q805	8-729-900-61	TRANSISTOR	DTA114ES	
Q806	8-729-900-80	TRANSISTOR	DTC114ES	
Q807	8-729-900-65	TRANSISTOR	DTA144ES	(WA7ESA,WE505, WE705S)
		< RESISTOR >		
R101	1-249-429-11	CARBON	10K	5% 1/4W
R102	1-247-887-00	CARBON	220K	5% 1/4W
R103	1-249-441-11	CARBON	100K	5% 1/4W
R104	1-249-420-11	CARBON	1.8K	5% 1/4W
R105	1-249-423-11	CARBON	3.3K	5% 1/4W
R106	1-247-842-11	CARBON	3K	5% 1/4W
R107	1-249-417-11	CARBON	1K	5% 1/4W
R108	1-249-424-11	CARBON	3.9K	5% 1/4W
R109	1-249-429-11	CARBON	10K	5% 1/4W
R110	1-249-425-11	CARBON	4.7K	5% 1/4W
R111	1-249-421-11	CARBON	2.2K	5% 1/4W
R112	1-249-430-11	CARBON	12K	5% 1/4W
R113	1-249-417-11	CARBON	1K	5% 1/4W
R114	1-249-421-11	CARBON	2.2K	5% 1/4W
R115	1-249-433-11	CARBON	22K	5% 1/4W
R116	1-249-423-11	CARBON	3.3K	5% 1/4W
R117	1-249-429-11	CARBON	10K	5% 1/4W
R118	1-249-409-11	CARBON	220	5% 1/4W
R119	1-249-417-11	CARBON	1K	5% 1/4W
R120	1-249-437-11	CARBON	47K	5% 1/4W
R121	1-249-437-11	CARBON	47K	5% 1/4W
R201	1-249-429-11	CARBON	10K	5% 1/4W
R202	1-247-887-00	CARBON	220K	5% 1/4W
R203	1-249-441-11	CARBON	100K	5% 1/4W
R204	1-249-420-11	CARBON	1.8K	5% 1/4W
R205	1-249-423-11	CARBON	3.3K	5% 1/4W
R206	1-247-842-11	CARBON	3K	5% 1/4W
R207	1-249-417-11	CARBON	1K	5% 1/4W
R208	1-249-424-11	CARBON	3.9K	5% 1/4W
R209	1-249-429-11	CARBON	10K	5% 1/4W
R210	1-249-425-11	CARBON	4.7K	5% 1/4W
R211	1-249-421-11	CARBON	2.2K	5% 1/4W
R212	1-249-430-11	CARBON	12K	5% 1/4W
R213	1-249-417-11	CARBON	1K	5% 1/4W
R214	1-249-421-11	CARBON	2.2K	5% 1/4W
R215	1-249-433-11	CARBON	22K	5% 1/4W
R216	1-249-423-11	CARBON	3.3K	5% 1/4W (EXCEPT WE505)
R217	1-249-429-11	CARBON	10K	5% 1/4W
R218	1-249-409-11	CARBON	220	5% 1/4W
R219	1-249-417-11	CARBON	1K	5% 1/4W
R220	1-249-437-11	CARBON	47K	5% 1/4W
R221	1-249-437-11	CARBON	47K	5% 1/4W
R501	1-215-455-00	METAL	27K	1% 1/4W
R502	1-215-452-00	METAL	20K	1% 1/4W
R503	1-249-417-11	CARBON	1K	5% 1/4W
R504	1-249-428-11	CARBON	8.2K	5% 1/4W
R505	1-247-903-00	CARBON	1M	5% 1/4W
R507	1-249-429-11	CARBON	10K	5% 1/4W
R508	1-249-413-11	CARBON	470	5% 1/4W
R509	1-249-417-11	CARBON	1K	5% 1/4W
R510	1-249-437-11	CARBON	47K	5% 1/4W
R511	1-249-429-11	CARBON	10K	5% 1/4W
R512	1-249-413-11	CARBON	470	5% 1/4W
R521	1-249-433-11	CARBON	22K	5% 1/4W
R522	1-249-426-11	CARBON	5.6K	5% 1/4W
R523	1-249-436-11	CARBON	39K	5% 1/4W
R524	1-249-425-11	CARBON	4.7K	5% 1/4W
R525	1-249-425-11	CARBON	4.7K	5% 1/4W
R526	1-249-441-11	CARBON	100K	5% 1/4W
R527	1-249-441-11	CARBON	100K	5% 1/4W
R528	1-247-852-11	CARBON	7.5K	5% 1/4W
R531	1-249-437-11	CARBON	47K	5% 1/4W
R532	1-249-437-11	CARBON	47K	5% 1/4W
R533	1-249-437-11	CARBON	47K	5% 1/4W
R601	1-247-807-31	CARBON	100	5% 1/4W
R602	1-247-807-31	CARBON	100	5% 1/4W
R603	1-249-433-11	CARBON	22K	5% 1/4W
R604	1-249-433-11	CARBON	22K	5% 1/4W
R605	1-249-430-11	CARBON	12K	5% 1/4W
R606	1-249-430-11	CARBON	12K	5% 1/4W
R607	1-247-858-11	CARBON	13K	5% 1/4W
R608	1-247-858-11	CARBON	13K	5% 1/4W
R609	1-247-858-11	CARBON	13K	5% 1/4W
R610	1-247-858-11	CARBON	13K	5% 1/4W
R613	1-249-422-11	CARBON	2.7K	5% 1/4W
R614	1-249-422-11	CARBON	2.7K	5% 1/4W
R615	1-247-854-11	CARBON	9.1K	5% 1/4W
R616	1-247-854-11	CARBON	9.1K	5% 1/4W
R617	1-249-429-11	CARBON	10K	5% 1/4W
R618	1-249-421-11	CARBON	2.2K	5% 1/4W
R619	1-249-429-11	CARBON	10K	5% 1/4W
R620	1-249-421-11	CARBON	2.2K	5% 1/4W
R621	1-249-435-11	CARBON	33K	5% 1/4W (WE505,WE705S)
R622	1-247-848-11	CARBON	5.1K	5% 1/4W (WE505,WE705S)
R623	1-249-437-11	CARBON	47K	5% 1/4W (WE505,WE705S)
R624	1-249-437-11	CARBON	47K	5% 1/4W (WE505,WE705S)
R701	1-249-414-11	CARBON	560	5% 1/4W
R702	1-249-429-11	CARBON	10K	5% 1/4W (WA7ESA,WE605S,WR550Z)
R703	1-249-419-11	CARBON	1.5K	5% 1/4W
R704	1-249-425-11	CARBON	4.7K	5% 1/4W
R705	1-249-427-11	CARBON	6.8K	5% 1/4W
R706	1-249-419-11	CARBON	1.5K	5% 1/4W
R707	1-249-429-11	CARBON	10K	5% 1/4W
R708	1-249-419-11	CARBON	1.5K	5% 1/4W
R709	1-249-425-11	CARBON	4.7K	5% 1/4W
R710	1-249-417-11	CARBON	1K	5% 1/4W
R711	1-249-427-11	CARBON	6.8K	5% 1/4W
R712	1-249-427-11	CARBON	6.8K	5% 1/4W
R713	1-249-417-11	CARBON	1K	5% 1/4W
R714	1-249-429-11	CARBON	10K	5% 1/4W
R715	1-249-422-11	CARBON	2.7K	5% 1/4W
R716	1-249-433-11	CARBON	22K	5% 1/4W
R717	1-249-429-11	CARBON	10K	5% 1/4W

Ref. No.	Part No.	Description			Remark
R718	1-249-436-11	CARBON	39K	5% 1/4W	
R719	1-249-430-11	CARBON	12K	5% 1/4W	
⚠ R720	1-219-136-11	FUSIBLE	0.22	10% 1/4W F	
R721	1-249-415-11	CARBON	680	5% 1/4W	(WA7ESA)
R721	1-249-419-11	CARBON	1.5K	5% 1/4W	(EXCEPT WA7ESA)
⚠ R722	1-219-137-11	FUSIBLE	0.33	10% 1/4W F	
⚠ R723	1-219-137-11	FUSIBLE	0.33	10% 1/4W F	
R724	1-249-412-11	CARBON	390	5% 1/4W	(WA7ESA)
R805	1-249-429-11	CARBON	10K	5% 1/4W	
R806	1-249-429-11	CARBON	10K	5% 1/4W	
R807	1-249-429-11	CARBON	10K	5% 1/4W	
R808	1-249-429-11	CARBON	10K	5% 1/4W	
R809	1-249-441-11	CARBON	100K	5% 1/4W	
R810	1-249-417-11	CARBON	1K	5% 1/4W	
R811	1-249-433-11	CARBON	22K	5% 1/4W	
R812	1-249-433-11	CARBON	22K	5% 1/4W	
R813	1-247-807-31	CARBON	100	5% 1/4W	
R814	1-249-433-11	CARBON	22K	5% 1/4W	
R815	1-249-435-11	CARBON	33K	5% 1/4W	
R816	1-249-441-11	CARBON	100K	5% 1/4W	
R817	1-249-426-11	CARBON	5.6K	5% 1/4W	
R818	1-249-422-11	CARBON	2.7K	5% 1/4W	
R819	1-249-428-11	CARBON	8.2K	5% 1/4W	
R820	1-249-428-11	CARBON	8.2K	5% 1/4W	
R821	1-249-430-11	CARBON	12K	5% 1/4W	
R822	1-247-852-11	CARBON	7.5K	5% 1/4W	
R823	1-249-425-11	CARBON	4.7K	5% 1/4W	
R824	1-249-425-11	CARBON	4.7K	5% 1/4W	
R825	1-249-429-11	CARBON	10K	5% 1/4W	
R826	1-249-429-11	CARBON	10K	5% 1/4W	
R827	1-249-425-11	CARBON	4.7K	5% 1/4W	(WE605S,WE705S)
R828	1-249-429-11	CARBON	10K	5% 1/4W	(WE605S,WE705S)
R829	1-249-393-11	CARBON	10	5% 1/4W	(WE605S,WE705S)
R830	1-249-421-11	CARBON	2.2K	5% 1/4W	
R831	1-249-421-11	CARBON	2.2K	5% 1/4W	
R832	1-249-434-11	CARBON	27K	5% 1/4W	
R833	1-249-434-11	CARBON	27K	5% 1/4W	(WA7ESA,WE705S)
R834	1-247-887-00	CARBON	220K	5% 1/4W	
R835	1-247-887-00	CARBON	220K	5% 1/4W	
R836	1-247-887-00	CARBON	220K	5% 1/4W	
R837	1-247-887-00	CARBON	220K	5% 1/4W	
R838	1-249-422-11	CARBON	2.7K	5% 1/4W	
R839	1-249-422-11	CARBON	2.7K	5% 1/4W	
R840	1-249-422-11	CARBON	2.7K	5% 1/4W	
R841	1-249-429-11	CARBON	10K	5% 1/4W	
R842	1-247-862-11	CARBON	20K	5% 1/4W	

Ref. No.	Part No.	Description			Remark
R844	1-249-421-11	CARBON	2.2K	5% 1/4W	
R845	1-247-874-11	CARBON	62K	5% 1/4W	
R846	1-247-866-11	CARBON	30K	5% 1/4W	
R847	1-249-431-11	CARBON	15K	5% 1/4W	
R848	1-247-852-11	CARBON	7.5K	5% 1/4W	
R849	1-249-429-11	CARBON	10K	5% 1/4W	
R850	1-249-429-11	CARBON	10K	5% 1/4W	
R851	1-249-429-11	CARBON	10K	5% 1/4W	
R852	1-249-429-11	CARBON	10K	5% 1/4W	
R853	1-249-434-11	CARBON	27K	5% 1/4W	
R854	1-249-434-11	CARBON	27K	5% 1/4W	
R855	1-249-434-11	CARBON	27K	5% 1/4W	
R856	1-249-434-11	CARBON	27K	5% 1/4W	
R857	1-249-421-11	CARBON	2.2K	5% 1/4W	
R858	1-249-421-11	CARBON	2.2K	5% 1/4W	
R859	1-249-421-11	CARBON	2.2K	5% 1/4W	
R860	1-249-434-11	CARBON	27K	5% 1/4W	
R861	1-249-434-11	CARBON	27K	5% 1/4W	(WA7ESA,WE705S)
R862	1-249-441-11	CARBON	100K	5% 1/4W	
R863	1-247-807-31	CARBON	100	5% 1/4W	
R901	1-249-413-11	CARBON	470	5% 1/4W	
R902	1-249-413-11	CARBON	470	5% 1/4W	(WE605S,WE705S)
R903	1-249-441-11	CARBON	100K	5% 1/4W	(WE505,WE705S)
R904	1-247-807-31	CARBON	100	5% 1/4W	
R911	1-249-418-11	CARBON	1.2K	5% 1/4W	
R912	1-249-420-11	CARBON	1.8K	5% 1/4W	
R913	1-249-422-11	CARBON	2.7K	5% 1/4W	
R914	1-249-424-11	CARBON	3.9K	5% 1/4W	
R915	1-249-427-11	CARBON	6.8K	5% 1/4W	
R916	1-249-431-11	CARBON	15K	5% 1/4W	
R917	1-249-437-11	CARBON	47K	5% 1/4W	
R921	1-249-418-11	CARBON	1.2K	5% 1/4W	
R922	1-249-420-11	CARBON	1.8K	5% 1/4W	
R923	1-249-422-11	CARBON	2.7K	5% 1/4W	
R924	1-249-424-11	CARBON	3.9K	5% 1/4W	
R925	1-249-427-11	CARBON	6.8K	5% 1/4W	
R926	1-249-431-11	CARBON	15K	5% 1/4W	
R927	1-249-437-11	CARBON	47K	5% 1/4W	
R931	1-249-418-11	CARBON	1.2K	5% 1/4W	
R932	1-249-420-11	CARBON	1.8K	5% 1/4W	
R933	1-249-422-11	CARBON	2.7K	5% 1/4W	
R934	1-249-424-11	CARBON	3.9K	5% 1/4W	(WE605S,WE705S)
R935	1-249-427-11	CARBON	6.8K	5% 1/4W	
R936	1-249-431-11	CARBON	15K	5% 1/4W	
R937	1-249-437-11	CARBON	47K	5% 1/4W	
R939	1-249-424-11	CARBON	3.9K	5% 1/4W	(WA7ESA,WE505,WR550Z)
R941	1-249-418-11	CARBON	1.2K	5% 1/4W	
R942	1-249-420-11	CARBON	1.8K	5% 1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
R943	1-249-422-11	CARBON	2.7K	5% 1/4W	
R944	1-249-424-11	CARBON	3.9K	5% 1/4W	
R945	1-249-427-11	CARBON	6.8K	5% 1/4W	
R946	1-249-431-11	CARBON	15K	5% 1/4W	
R947	1-249-437-11	CARBON	47K	5% 1/4W	
		< VARIABLE RESISTOR >			
RV101	1-241-630-11	RES, ADJ, CARBON 10K (DOLBY LEVEL L)			
RV201	1-241-630-11	RES, ADJ, CARBON 10K (DOLBY LEVEL R)			
RV601	1-241-765-11	RES, ADJ, CARBON 22K (PITCH CONTROL)			(WE505,WE705S)
RV901	1-241-797-11	RES, VAR, CARBON 20K (AUTO REC LEVEL)			
RV902	1-225-173-11	RES, VAR, CARBON 50K (PITCH CONTROL)			(WE505,WE705S)
		< SWITCH >			
⚠ S001	1-762-581-11	SWITCH, AC POWER PUSH (1 KEY) (POWER)			(WE505,WE705S)
S801	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)			(WA7ESA,WE605S,WR550Z)
S911	1-554-303-21	SWITCH, TACTILE (■ CLEAR)			
S912	1-554-303-21	SWITCH, TACTILE (▷ FRONT)			
S913	1-554-303-21	SWITCH, TACTILE (◁ BACK)			
S914	1-554-303-21	SWITCH, TACTILE (◀◀)			
S915	1-554-303-21	SWITCH, TACTILE (▶▶)			
S916	1-554-303-21	SWITCH, TACTILE (REC)			
S917	1-554-303-21	SWITCH, TACTILE (RESET)			
S918	1-554-303-21	SWITCH, TACTILE (MEMORY)			
S921	1-554-303-21	SWITCH, TACTILE (■)			
S922	1-554-303-21	SWITCH, TACTILE (PAUSE)			
S923	1-554-303-21	SWITCH, TACTILE (▷)			
S924	1-554-303-21	SWITCH, TACTILE (◁)			
S925	1-554-303-21	SWITCH, TACTILE (REC MUTE)			
S926	1-554-303-21	SWITCH, TACTILE (◀◀ /-RMS+)			
S927	1-554-303-21	SWITCH, TACTILE (▶▶ /-RMS+)			
S928	1-554-118-00	SWITCH, PUSH (1 KEY)(PITCH CONTROL)			(WE505,WE705S)
S931	1-554-303-21	SWITCH, TACTILE (RESET)			
S932	1-554-303-21	SWITCH, TACTILE (MEMORY)			
S933	1-554-303-21	SWITCH, TACTILE (FADER) (WE605S,WE705S)			
S934	1-554-303-21	SWITCH, TACTILE (ARL) (WE605S,WE705S)			
S935	1-554-303-21	SWITCH, TACTILE (SYNCHRO) (WE605S,			WE705S)
S935	1-554-303-21	SWITCH, TACTILE (ARL) (WA7ESA,WE505,			WR505Z)
S936	1-762-567-11	SWITCH, SLIDE (DOLBY NR)			
S937	1-762-609-11	SWITCH, SLIDE (DOLBY NR) (EXCEPT WE505)			
S937	1-762-608-11	SWITCH, SLIDE (DOLBY NR) (WE505)			
S938	1-554-303-21	SWITCH, TACTILE (FADER) (WA7ESA,WE505,			WR550Z)
S941	1-554-303-21	SWITCH, TACTILE (DISPLAY/START)			

Ref. No.	Part No.	Description	Remark
S942	1-554-303-21	SWITCH, TACTILE (RMS/START)	
S943	1-554-303-21	SWITCH, TACTILE (CHECK)	
S944	1-554-303-21	SWITCH, TACTILE (SET)	
S945	1-554-303-21	SWITCH, TACTILE (AUTO CAL/START)	
S946	1-554-303-21	SWITCH, TACTILE (HIGH/NORMAL)	
S947	1-762-609-11	SWITCH, SLIDE (DIRECTION MODE)	
		< TEST PIN >	
* TP801	1-560-060-00	PIN, CONNECTOR 2P	
		< INDICATOR TUBE >	
VFD901	1-517-263-11	INDICATOR TUBE, FLUORESCENT	
		< VIBRATOR >	
X801	1-579-175-11	VIBRATOR, CERAMIC (10MHz)	
**********			
*	1-634-841-14	LEAF SW BOARD (DECK A) (WA7ESA,WE705S)	
*	1-638-020-11	LEAF SW BOARD (DECK A) (WE505,WE605S,	WR550Z)
		**********	
		< CONNECTOR >	
* CNP81	1-568-850-11	SOCKET, CONNECTOR 7P (WE505,WE605S,	WR550Z)
* CNP81	1-568-852-11	SOCKET, CONNECTOR 9P (WA7ESA,WE705S)	
		< IC >	
IC81	8-749-924-10	IC NJL5165K-B (H1)	
IC82	8-749-924-10	IC NJL5165K-B (H1) (WA7ESA,WE705S)	
		< RESISTOR >	
R84	1-249-417-11	CARBON 1K	5% 1/4W
R85	1-249-408-11	CARBON 180	5% 1/4W
R86	1-249-408-11	CARBON 180	5% 1/4W (WA7ESA,WE705S)
		< SWITCH >	
S81	1-571-958-11	SWITCH, PUSH (1 KEY) (STOP)	
S82	1-571-281-21	SWITCH, LEAF (CrO2)	
S86	1-571-281-21	SWITCH, LEAF (HALF)	
**********			
*	1-634-841-14	LEAF SW BOARD (DECK B) (WA7ESA,WE705S)	
*	1-638-020-11	LEAF SW BOARD (DECK B) (WE505,WE605S,	WR550Z)
		**********	
		< CONNECTOR >	
* CNP81	1-568-850-11	SOCKET, CONNECTOR 7P (WE505,WE605S,	WR550Z)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

LEAF SW (DECK B)

Ref. No.	Part No.	Description			Remark
* CNP81	1-568-852-11	SOCKET, CONNECTOR 9P (WA7ESA,WE705S)			
		< IC >			
IC81	8-749-924-10	IC NJL5165K-B (H1)			
IC82	8-749-924-10	IC NJL5165K-B (H1) (WA7ESA,WE705S)			
		< RESISTOR >			
R81	1-249-414-11	CARBON	560	5% 1/4W	
R82	1-247-818-11	CARBON	300	5% 1/4W	
R83	1-247-834-11	CARBON	1.3K	5% 1/4W	
R84	1-249-417-11	CARBON	1K	5% 1/4W	
R85	1-249-408-11	CARBON	180	5% 1/4W	
R86	1-249-408-11	CARBON	180	5% 1/4W	(WA7ESA,WE705S)
		< SWITCH >			
S81	1-571-958-11	SWITCH, PUSH (1 KEY) (STOP)			
S82	1-571-281-21	SWITCH, LEAF (CrO2)			
S83	1-571-281-21	SWITCH, LEAF (METAL)			
S84	1-571-281-21	SWITCH, LEAF (ERASER PROOF (SIDE A))			
S85	1-571-281-21	SWITCH, LEAF (ERASER PROOF (SIDE A))			
S86	1-571-281-21	SWITCH, LEAF (HALF)			

****

MISCELLANEOUS
****

⚠ 9	1-551-188-99	CORD, POWER (E)	
⚠ 9	1-558-945-21	CORD, POWER (POLAR.SPT-1) (US,CND,PA)	
⚠ 9	1-575-651-21	CORD, POWER (AEP,G,MY,SP,CH)	
⚠ 9	1-696-586-11	CORD, POWER (UK)	
⚠ 9	1-696-845-11	CORD, POWER (AUS)	
⚠ 10	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
⚠ 10	1-569-008-21	ADAPTER, CONVERSION 2P (CH)	
65	1-769-882-11	WIRE (FLAT TYPE) (7 CORE) (WE505,WE605S,	WR550Z)
65	1-769-912-11	WIRE (FLAT TYPE) (9 CORE) (WA7ESA,WE705S)	
74	1-769-598-11	WIRE (FLAT TYPE) (41 CORE)	
121	1-638-983-11	MOTOR FLEXIBLE BOARD	
HP101	A-2004-526-A	DECK ASSY, HEAD (PLAYBACK) (WE505,	WE605S,WR550Z)
HP101	A-2004-548-A	DECK ASSY, HEAD (PLAYBACK) (WA7ESA,	WE705S)
HRPE101	A-2004-527-A	DECK ASSY, HEAD (RECORD/PLAYBACK/ERASE)	
M1	X-3365-377-2	MOTOR ASSY (CAPSTAN)	
M2	X-3365-501-2	MOTOR ASSY (REEL)	
⚠ S701	1-692-155-11	SELECTOR, POWER VOLTAGE (VOLTAGE	SELECTOR) (E)
⚠ T801	1-427-782-11	TRANSFORMER, POWER (US,CND,PA)	
⚠ T801	1-427-783-11	TRANSFORMER, POWER (AEP,UK,G,AUS,MY,SP,	CH)
⚠ T801	1-427-784-11	TRANSFORMER, POWER (E)	

****

ACCESSORIES & PACKING MATERIALS
****

	1-473-598-11	REMOTE COMMANDER (RM-J910) (WA7ESA :CND)
	1-551-734-11	CORD, CONNECTION
⚠	1-569-007-11	ADAPTER, CONVERSION 2P (E)
⚠	1-569-008-21	ADAPTER, CONVERSION 2P (CH)
	3-798-411-11	MANUAL, INSTRUCTION (ENGLISH/FRENCH/ SPANISH/PORTUGUESE) (AEP)
	3-798-411-21	MANUAL, INSTRUCTION (ENGLISH) (UK)
	3-798-411-41	MANUAL, INSTRUCTION (GERMAN/DUTCH/ SWEDISH/ITALIAN) (AEP)
	3-798-411-51	MANUAL, INSTRUCTION (GERMAN) (G)
	3-810-716-11	MANUAL, INSTRUCTION (ENGLISH) (US,CND, AUS,PA)
	3-810-716-21	MANUAL, INSTRUCTION (FRENCH) (CND)
	3-810-716-61	MANUAL, INSTRUCTION (ENGLISH/FRENCH/ SPANISH/CHINESE) (E,MY,SP,CH)
	3-810-765-11	MANUAL(CONTROL-A1),INSTRUCTION (ENGLISH) (WE605S:US,AUS,PA)
	3-810-765-21	MANUAL(CONTROL-A1),INSTRUCTION (ENGLISH/FRENCH/SPANISH/GERMAN/DUTCH/ SWEDISH/ITALIAN/PORTUGUSE/CHINESE) (WE605S:CND,E,MY,SP,CH)
*	3-932-083-01	CUSHION (EXCEPT WA7ESA)
*	3-934-283-01	CARTON, INDIVIDUAL (WE505)
*	3-934-284-01	CARTON, INDIVIDUAL (WE605S:US,CND,E,AUS, PA)
*	3-936-086-01	CUSHION (WA7ESA)
*	3-934-285-01	CARTON, INDIVIDUAL (WE705S)
*	3-934-287-01	CARTON, INDIVIDUAL (WA7ESA)
*	3-935-092-01	INDIVIDUAL CARTON (WE605S:MY,SP,CH)
*	3-935-644-01	INDIVIDUAL CARTON (WR550Z)
	4-981-643-01	COVER BATTERY (FOR RM-J910) (WA7ESA :CND)

****

#1	7-682-548-04	SCREW +BVTT 3X8 (S)
#2	7-685-871-01	SCREW +BVTT 3X6 (S)
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#4	7-685-134-19	SCREW (+ PTPWH) (2.6X8)
#5	7-621-773-95	SCREW +BVTT 2.6X6 (S)
#6	7-621-775-00	SCREW +B 2.6X3
#7	7-627-556-08	SCREW +P 2.6X2.8

****

HARDWARE LIST

****

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.